

**Office of River Protection
Tri-Party Agreement Milestone Review
Meeting Minutes
May 20, 2010**

Approval: _____

J.A. Hedges*Ecology IAMIT Representative*Date: 6/17/10

Approval: _____

S.L. Charboneau*DOE IAMIT Representative*Date: 6/21/10

Approval: _____

D.A. Faulk*EPA IAMIT Representative*Date: 6/21/10

Minutes Prepared by: _____

T.W. Noland*Mission Support Alliance*Date: 6/21/10

Abdul, W.*	ORP	Lynch, J.J.	ORP
Barnes, M.W.*	Ecology	Lyon, J.J.*	Ecology
Becker, D.L.*	Ecology	McDonald, D.*	Ecology
Bohnee, G.	NPT	Moore, S.L.*	MSA
Bruggeman, J.M.*	ORP	Niles, K.	OOE
Caggiano, J.A.*	Ecology	Noland, T.W.*	FFS
Cameron, C.E.	EPA	Noyes, D.L.*	ORP
Charboneau, S.L.	ORP	Olinger, S.J.	ORP
Cimon, S.*	ODE	Olsen, G.B.*	ORP
Dahl, S.L.	Ecology	Pfaff, S.H.*	ORP
Diediker, J.A.	ORP	Piippo, R.E.*	MSA
Eberlein, S.J.	WRPS	Potter, R.D.*	MSA
Einan, D.R.	EPA	Price, J.B.*	Ecology
Faulk, D.A.*	EPA	Reed, G.R.*	ORP
Fletcher, T.W.*	ORP	Russell, R.W.*	ORP
Furlong, P.T.	ORP	Skinnarland, R.R.	Ecology
Harp, B.J.	ORP	Swarens, C.L.*	ORP
Harris, S.	CTUIR	Trenchard, G.D.	ORP
Hedges, J.*	Ecology	Trent, J.S.*	ORP
Hendrickson, M.L.*	Ecology	Uziemblo, N.H.*	Ecology
Hidden, F.B.	ORP	Vance, J.G.	FH
Huffman, L.A.*	ORP	Vanni, J.*	Yakama
Jim, R.	Yakama	Wallace, J.J.*	Ecology
Kemp, C.J.*	ORP	Wheeler, C.L.*	Ecology
Knox, K.E.*	KCR	Wright, K.*	Ecology
Lober, R.W.*	ORP		Administrative Record
Long, J.D.*	ORP		
Luke, J.J.*	WRPS		

RECEIVED
JUN 22 2010
EDMC

*Attendees

**Office of River Protection
Tri-Party Agreement Quarterly Milestone Review
Meeting Minutes
May 20, 2010**

Milestone M-45, -50, -60 Single-Shell Tank Corrective Action

M-45-56F, Complete Implementation of Agreed to Interim Measures

ORP provided an overview of the April 6, 2010 meeting with Ecology to discuss potential locations/design options for future interim surface barriers in tank farms. The signed meeting minutes are an attachment for submittal to the Administrative Record. Characterization efforts north of SX are underway, and initial barrier placement will be explored in the south portion of SX, depending upon what is found in the current characterization efforts. In parallel, BY characterization, along with baseline monitoring, will be initiated. Barrier effectiveness studies and exploration of soil desiccation work in SX were identified in the minutes as actions that will be undertaken. Yakama Nation (YN) inquired about when the barrier effectiveness studies will be performed. ORP responded that the studies are addressed in milestone M-45-92 in the proposed consent decree.

M-45-60, Submit to Ecology for Review and Approval as an Agreement Primary Document
DOE's Phase 2 RFI/CMS Work Plan and Sampling and Analysis Plan (SAP) for WMA C

ORP and Ecology met on April 26, 2010 to discuss the characterization schedule for Waste Management Area C (WMA C). During the April 26 meeting, ORP committed to providing Ecology a revised work plan on July 31, 2010. Specific issues identified in the April 26 meeting minutes include increasing the number of work packages to support additional direct pushes during the current retrieval hiatus and updates to the work plan to address lab analysis timing protocols. Also noted in the minutes was the plan to utilize deep-buried electrodes to gain better resolution, and that the location of some of the direct pushes to install the deep electrodes has been changed. The proof in principle on the beta probe development has been completed, and it is being prepared for field deployment. The April 26 minutes were signed and approved by Ecology during today's meeting, and are attached for submittal to the Administrative Record.

Significant Accomplishments

Regarding the Corrective Measures Study (CMS) for WMA C, ORP took an action during the April ORP/Ecology Project Managers Meeting to schedule a meeting with Ecology to review what is being proposed in the CMS.

Significant Planned Actions in the Next Six Months

There are numerous direct push campaigns under way in C Farm. Currently the direct push

campaign is in location R, and will then go to location U. ORP noted that Ecology requested a meeting regarding C-110 in U to discuss the path forward for the slant push in order to maximize the interception of an overflow event. Ecology inquired about the time frame for completing the SGE survey in A/AX Farms to support evaluation of a potential future barrier site. ORP indicated the date is the end of FY 2010, but will confirm with Ecology what the completion date is.

Milestone M-45-00, Complete Closure of all Single-Shell Tank Farms, SST Retrieval and Closure Program

M-45-00B, Complete Specified "Near-Term" SST Waste Retrieval and Interim Closure Activities, to Result in the Retrieval of all Tank Wastes in WMA-C SSTs Pursuant to the Agreement Criteria in Milestone M-45-00

ORP reported that start of retrieval on tank C-101 has been moved from FY 2011 to FY 2012. The design and procurement for C-101 will start in FY 2011. ORP noted that the milestones listed in the handout on pages 38, 39 and the two milestones at the top of page 40 are all superseded by the proposed Settlement Agreement.

Significant Accomplishments

Retrieval in Tank C-104 was stopped at approximately 75 percent complete. During removal of the old heel jet pump from the central riser in the tank, part of the pump broke off and it is creating an obstruction to lowering the slurry pump any further into the tank. About 60,000 gallons of waste is left in Tank C-104. An effort to move the obstruction with the sluicer jets was unsuccessful, and a few hundred gallons of slurry was removed during that process. ORP reported that the hydraulic arm design for C-104 is not the mobile arm retrieval system (MARS), but an articulating mast system which is a vacuum type of arm that was used in the C-200 tanks. The end of the arms are being modified so they can grab the obstruction underneath the slurry pump in C-104 and try to drag it out of the way. The schedule for completion in C-104 of bulk retrieval using modified sluicing is by the end of December 2010.

Ecology asked for a briefing on the design specifications for the arm to be used in C-104, and what safety measures that will be established if too much pressure is placed on the arm while it is attempting to move the obstruction. WRPS noted that a full description of the arm will be submitted to Ecology in a modified Tank Waste Retrieval Work Plan (TWRWP). ORP added that a hazard analysis will be provided in a separate document once testing of the arm is completed in the Cold Test Facility. ORP suggested that Ecology could observe the testing of the arm.

While C-104 is down for retrieval, the AN-101 supernatant pump is being replaced. The replacement pump is in stock, but it requires some fabrication to complete the pump assembly, as well as the jumpers that go into the transfer pit above Tank AN-101. The two new sluicers were installed in Tank C-111, and it is anticipated the slurry pump will be installed by next week and the hose-in-hose transfer line hookups will be completed at that time. ORP noted that retrieval in

C-111 cannot be initiated until AN-101 double-shell tank is back on line to supply the supernatant. Ecology stated that ORP needs to confer with the Ecology permit writer for double-shell tanks regarding the AN-101 pump modification to determine whether or not a permit modification would be needed.

Regarding the design for the C-108 system, Ecology requested a briefing and a schedule for the design modification for the C-108 hard heel retrieval system and construction of the above-ground portable transfer pit. Ecology noted that when a TWRWP is being developed, Ecology should be included in the process.

Significant Planned Activities in the Next Six Months

Installation of the large riser in Tank C-107 is planned for this summer. The goal is to have C-107 ready to receive the MARS equipment by November 2010. A hole will be cut in the tank to install the riser equipment and the MARS equipment support pad. YN requested a briefing on the process for cutting the hole in the tank and how the MARS will be utilized.

ORP summarized the near-term retrieval sequence as follows: C-111 this summer; conclusion of C-104 this fall; C-107 in Spring 2011; and C-112 following C-107.

Issues

YN inquired about the date for Milestones M-45-00B, M-45-00C, and M-45-00D. WRPS noted that the completion dates are to be established sometime after December 11, 2009 and have not yet been determined. ORP added that the milestones are addressed in the proposed Settlement Agreement. YN expressed concern about meeting new milestone dates for retrieval in the five upcoming tanks. ORP referred to the schedule for C-Farm retrieval on page 45 of the handout, and pointed out that during FY 2011, nine of the ten tanks will have some type of ongoing activity.

ORP noted that the MARS has been tested in the Cold Test Facility, and it was able to successfully cut up everything during testing, including concrete. Initially there were issues with the transfer pump, but further pump testing has been successful, and the approved transfer pump should be able to handle the solids that the MARS rakes into the pump. It is anticipated that the MARS and pump testing will allow some schedule savings for retrieval in C-107. Ecology requested a briefing on the schedule on page 45 of the handout.

In response to YN's inquiry about utilizing multiple teams, ORP stated that there are several teams working on the design, procurement and construction for the tanks.

ORP stated that savings achieved by WRPS have been authorized to be directed to A/AX Farms. The intent is to design the retrieval in those farms as a more systematic approach instead of setting up one tank at a time. The electrical and ventilation infrastructure, the hose-in-hose transfer lines and the transfer pits will be established up front so that the tanks can be plugged into a central system. This approach is expected to maintain progress in several areas. Ecology

requested a briefing on the planning for A/AX.

M-62-40, Tank Waste System Plan

ORP reported that System Plan Revision 5 will be published in August 2010, and it includes the baseline case plus one sensitivity case analysis. The Aluminum Removal Facility will be included in Rev. 5, although notification has just been received from Headquarters (April and May 2010 letters) that it will be removed from the system plan. When the proposed Consent Decree is entered in the court and the TPA milestone change package is completed, milestones from the change package will be used to identify multiple scenarios for System Plan Rev. 6. With the new Consent Decree, a system plan will be produced annually. Ecology noted that the May letter from Headquarters referred to the addition of an enhanced waste receiving facility, which will need to be addressed. Ecology also noted that the May letter called for a clarification between system I5 and 6 by June 2011, which will need further discussion.

Interim Stabilization Consent Decree

ORP reported that there was no physical change in status since the February quarterly milestone review meeting. ORP is reviewing an interim stabilization evaluation submitted by the contractor. Upon completion and concurrence of the review, it will be forwarded to Ecology by early June 2010.

In Tank Characterization and Summary

Planned Actions Within the Next Six Months

The evaporator grab sampling for Tank 24-AP-107 has been completed, and the remaining tanks are on schedule for completion of sampling.

BBI Updates

Seven Best Basis Inventory (BBI) updates are planned for FY 2010.

Data Quality Objectives (DQO)

Rev. 0 of A-350 retrieval, transfer and closure DQO has been completed. Ecology pointed out that the C-301 retrieval is the catch tank in C Farm which contains a measurable amount of waste that needs to be retrieved. The C-301 DQO is a part of the C-200 Demo Plan, and the title has been changed to WMA C Demo Plan.

Milestone M-47-00, Complete Work Necessary to Support Acquisition and Phase I Operations of Hanford Site High-Level Radioactive Waste Treatment, Storage and Disposal Facilities

There was no change in status from the last quarterly report on this milestone. These milestones

are on hold pending acceptance of the proposed Consent Decree.

242-A Evaporator Status

A table was provided for the 242-A Evaporator campaigns. There were no changes to report in the schedule. A cold run is underway and will go into June 2010 while modifications are being done. The facility will then shut down for more modifications, and startup of hot operations will begin in August 2010. There is one campaign planned for FY 2010, and two campaigns in FY 2011. YN requested a briefing for all the tribes on the process for the Evaporator campaigns.

Milestone M-90-00, Complete Acquisition of New Facilities, Modifications of Existing Facilities, and/or Modifications of Planned Facilities, as Necessary for Storage of Hanford Site Immobilized High Level Waste (IHLW), Immobilized Low Activity Waste (ILAW), and Disposal of ILAW, and M-20-00, Submit Part B Permit Applications.

There was no change in status from the last quarterly report on this milestone. These milestones are on hold pending acceptance of the proposed Consent Decree.

M-62-00, Complete Pretreatment Processing and Vitrification of Hanford High-Level (HLW) and Low-Activity (LAW) Tank Wastes

There was no change in status to report. These milestones are on hold pending acceptance of the proposed Consent Decree.

FY 2009 ORP TPA Cost & Schedule Performance (CHG)

ORP reported on the cost and schedule performance through March 2010. For contract-to-date, the schedule performance is a positive 1.0, and the cost performance is a positive 1.06. This positive cost and schedule performance is inclusive of base and Recovery Act funding. From a Recovery Act perspective, there is a five million dollar positive schedule variance, and a 15 million dollar positive cost variance. All Recovery Act work scope is planned to be finished by September 30, 2011. There will be no carry-over funding, with the exception of specific allocations from Headquarters.

TPA Milestone Statistics

A table of the TPA milestone statistics was provided, including target milestones.

BNI Cost & Schedule Performance for Immobilization Plant (WTP) Project

ORP reported that a press release is coming out regarding a technical review panel that DOE Headquarters' has designated to review DOE's cleanup programs at Hanford, Savannah River, and Idaho. The panel will be organized under the Environmental Management Advisory Board (EMAB), and it will report to EM-1. The purpose of the panel is to increase the effectiveness of the tank waste cleanup project at Hanford, and it will complete a report on the following issues:

Verification of closure of waste treatment plant and mobilization flow sheet issues; verify that the technical resolution of the 28 issues identified by the External Flowsheet Review Team (EFRT) have been successfully implemented; and ensure the engineering and design activities are being followed through.

ORP stated that a schedule for the panel is not yet available, and ORP will continue to proceed with operations as previously discussed with Ecology.

Hanford Waste Treatment and Immobilization Plant (WTP) Project

ORP reported that there are no fundamental changes in action regarding the Material at Risk (MAR) and Hydrogen in Piping and Ancillary Vessels (HPAV) issues. ORP has released the contractor to move forward to perform its calculations to evaluate the standards for potential hydrogen buildup and the number of events from a qualitative perspective in order to implement the Authorization Basis (AB). In response to Ecology's inquiry, ORP stated that all of the Conditions of Acceptance (COA) are planned for completion by August 2010. Ecology suggested streamlining the history given in the quarterly reports and providing more specific month-to-month changes.

The HPAV review team is moving forward with its review of the design criteria and proposed implementation methods for evaluating postulated hydrogen events in piping and ancillary vessels in the Pretreatment Facility. The target date for their final report is July 2010. However, the team has indicated it may need an extension to complete the report. Ecology requested further discussion outside today's meeting regarding the scope of the HPAV team's review.

Pretreatment Facility (PT)

Overall cost and schedule performance for PT have been holding close to 1.0, although the schedule performance has dipped below 1.0 in the last two months due to technical issues. Ecology inquired about the percentages complete on the project. ORP responded that the percentages are accurate and will not change significantly when additional work is factored in.

The jumper frame design and procurement has been a complex issue. The jumper frame fabrication bids came in higher than expected, and options for mitigating the high cost are being explored. However, the jumper frames are not needed for 3-4 years, so there is time to resolve the cost issues. Ecology inquired about the status of recovery for the HVAC installation. ORP indicated that BNI is on track to recover up to 150,000 pounds of HVAC installation by the end of December 2010. The majority of the HVAC duct has already been fabricated.

ORP reported that the vessel design and analysis is behind schedule. It is partially impacted by the vessel mixing issue (M3), which is impacted by resource availability; i.e., the same personnel are working on M3 and vessel design/analysis. BNI has increased resources and will continue to improve in that key area as needed. Ecology inquired about receipt of a schedule for all of the issues, including M3 and its impact. ORP responded that a schedule will be ready by early September 2010. Ecology asked if the schedule will include known life cycle elements such as

design, procurement, funding, and permitting. ORP stated that those factors will be in the schedule generically, and the cost and schedule estimate will be updated by November 2010. ORP added that it will be a comprehensive schedule that will include all the engineering changes and piping runs, as well as the vessels. Ecology expressed interest in receiving a detailed list of all the vessels that includes known and potential modifications.

ORP reported on a closed issue that has been reopened regarding five non-newtonian vessels. The issue was raised about the potential for particle solids to settle in corners of the vessel after mixing. If solids develop in the vessel, the issue becomes hydrogen generation. Plutonium is a heavier particle and would tend to settle out more, which would result in criticality issues that would have to be addressed in terms of design. The M3 team is assessing the ability to use additional chemicals and water and pumping the solids out. Ecology inquired about how solids that may accumulate in areas of low velocity would be pumped out. ORP responded that BNI is working on a conceptual plan for removal of heel accumulation. Ecology requested additional discussion regarding the planning for heel accumulation and removal. ORP noted that BNI has added to its planning additional poles for a camera and a lance.

High Level Waste Facility (HLW)

ORP noted that the percentages complete on HLW are March 2010 data. The near-term critical path for HLW is the build-out of the filter cave, which continues to maintain its schedule. The pipe design for the C5 ventilation, the off-gas ventilation and the pulse jet ventilation are scheduled for completion by the end of the September 2010. Once the design work is completed, procurement and fabrication of the pipe, procurement of steel, and fabrication of the filter housing will commence. Installation of the pipe support for the C5 ventilation is scheduled for May 2011. The seismic analysis on the filter housing poses a potential schedule risk, and BNI is working on a daily basis with the subcontractor. Ecology noted a concern regarding the filter housing analysis and the analysis of the structure and how one affects the other. Further discussion will take place to address Ecology's concern.

Ecology inquired about receipt of the milestone package for completion of the structural steel at the 14-foot level. ORP will provide Ecology the package outside this meeting. ORP noted that the milestone is based on a contract incentive fee, and that both the milestone and incentive fee in the proposed Consent Decree are essentially the same. Ecology asked if the package addresses how the red tags on the structural steel were resolved. ORP responded that the structural steel installed in the building was verified, QA'd, inspected and signed off, and there should be no red tags. Ecology then asked if all the red tags were removed, and ORP stated that no red tagged items can be installed. Ecology asked if punch list items would be included in the completion package. ORP stated that there were no open non-conformance reports on the steel.

Low-Activity Waste (LAW) Facility

The Thermal Catalytic Oxidizer (TCO), which is one of the remaining key pieces of equipment,

is on schedule for procurement and installation. The construction substantially complete milestone for the TCO is December 2014.

Resolution of the excessive heat retention technical issue in some of the melter pour cave equipment continues. ORP and BNI met earlier this month to discuss a final path forward, and it has been determined certain components will need modification. ORP indicated that the modifications will not affect other systems or the critical path for the melter pour cave. The fabrication of the melters is making good progress, and the plan is to start shipping them here from Utah starting this fall.

Analytical Laboratory (LAB)

There are no major technical issues in LAB, and it is progressing well. ORP noted that the last line in the report regarding HVAC equipment is not the radiological HVAC from the hot cells and the fume hoods, but it is the HVAC equipment installation for the building heating and cooling. This HVAC installation will meet a milestone for May 2010.

Ecology inquired about the status of the Autosampling System (ASX). ORP stated that DOE requested a more rigorous factory acceptance testing on certain LAB equipment, which was initiated a week ago. It is not anticipated that the factory acceptance testing, which was requested later in the schedule, will have much of an impact.

Balance of Facilities (BOF)

Procurement of the emergency diesel generators (EDG) is on hold to allow resolution of M3 issues. There is about ten months of float in the schedule for procuring the EDG. In response to Ecology's inquiry, the system study for the EDG is still on track for May 27, 2010. In terms of power, the tank farms contractor is working on a two-phased approach. The first phase (out this summer) addresses the WTP, and the second phase addresses ancillary facilities. The issue is that the base calculation shows a need for about 53 megawatts, and the A6 substation can provide about 55 megawatts of power. The Interface Control Documents (ICD) from various contractors have specified an additional 15 percent for design growth and 15 percent for contingency. The tank farm contractor has been asked to look at the best alternative and rough order of magnitude cost estimates on upgrading the A6 substation to provide that power.

Ecology asked if the new enhanced waste receiving facility has been included in the power evaluation. ORP responded that it will be included in the second phase of the study.



Agenda
May 20, 2010

Office of River Protection
Quarterly Milestone Review Meeting
Ecology Conference Room 3A/B, 3100 Port of Benton Blvd., Richland

Chairperson: Tom Fletcher

9:00 a.m. – 11:30 a.m.

Topic	Leads	Time
M-45, -50, -60 Single-Shell Tank Corrective Action	Bob Lober / Joe Caggiano	9:00
M-45-00, Complete Closure of All Single-Shell Tank Farms	Chris Kemp / Jeff Lyon	9:10
M-62-40, Tank Waste System Plan	Chris Kemp / Michelle Hendrickson	9:20
Interim Stabilization Consent Decree	John Long / Nancy Uziemblo	9:30
In Tank Characterization and Summary	John Long / Michael Barnes	9:35
M-47-00, Tank Waste Treatment, Storage and Disposal Facilities	Ben Harp / Michelle Hendrickson	9:40
M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/ Disposal of ILAW and M-20, Part B Permits	Ben Harp / Dan McDonald	9:45
M-62-00, Complete Pretreatment Processing and Vitrification of Tank Wastes	Ben Harp / Dan McDonald	9:50
FY 2010 ORP TPA Cost & Schedule Performance (CHG)	Janet Diediker / Dan McDonald / Jeff Lyon	10:00
BREAK		
TPA Milestone Statistics	Woody Russell / Dan McDonald / Jeff Lyon	10:15
BNI Cost & Schedule Performance for Immobilization Plant (WTP) Project	Wahed Abdul / Jeff Trent / Garth Reed / Dan McDonald	10:20

Tri-Party Agreement Major Milestone Management Review
May 20, 2010

<u>Name</u>	<u>Organization</u>	<u>Mail Stop</u>	<u>Phone</u>
Terry Nolan	MSA		376-6574
Kathy Knox	Knox Reporting		946-5535
Bob Lohr	ORP		373-7949
ROB P/1000	ORP		373-3285
JOHN D LONG	ORP		376-5416
Tom FLETCHER	ORP		376-3434
Steve Platt	ORP		438-0417
Cheryl Whalen	Ecology		372-7972
JOE CAGGIANO	ECOLGY		372-7915
Joanne Wallace	Ecology		372-7931
DAN McDONALD	Ecobay		372-7988
Wood Russell	ORP		373-5227
Jeff Lyon	Ecology		539-1996
Jane Hedges	Ecology		372-7905
Shirley Simpson	ORP		(541) 903-0853
DENNIS FUNK	SPR		
Jean Orndorff	YU		946-1100
Sonya Moore	MSA		372-3320
DAVID BECKER	ECOLGY		372-7990
Delmar Noyes	ORP		376-5166
Jeff Trent	ORP		205-7116
Neil Swavens	ORP		376-1760
Jeff Bruggeman	ORP		438-0449
Gary Olsen	ORP		438-4707
Wahed Abdul	ORP		438-0455

*Tri-Party Agreement Major Milestone Management Review
May 20, 2010*

Name

Organization

Mail StopPhone

Mike Barnes
Michelle Hendrickson
Kristi Wold
Ross Potter
Jeff Luke

Ecology
Ecology
Ecology
MSA-Portfolio Mgmt
WRPS

372-7927
372-7970
372-7985
 376-5542

Office of River Protection

Tri-Party Agreement Quarterly Milestone Review Meeting May 20, 2010



U.S. Department of Energy
U.S. Environmental Protection Agency
Washington State Department of Ecology

Agenda

Office of River Protection
Tri-Party Agreement
Quarterly Milestone Review Meeting
May 20, 2010
9:00 a.m. – 11:30 a.m.

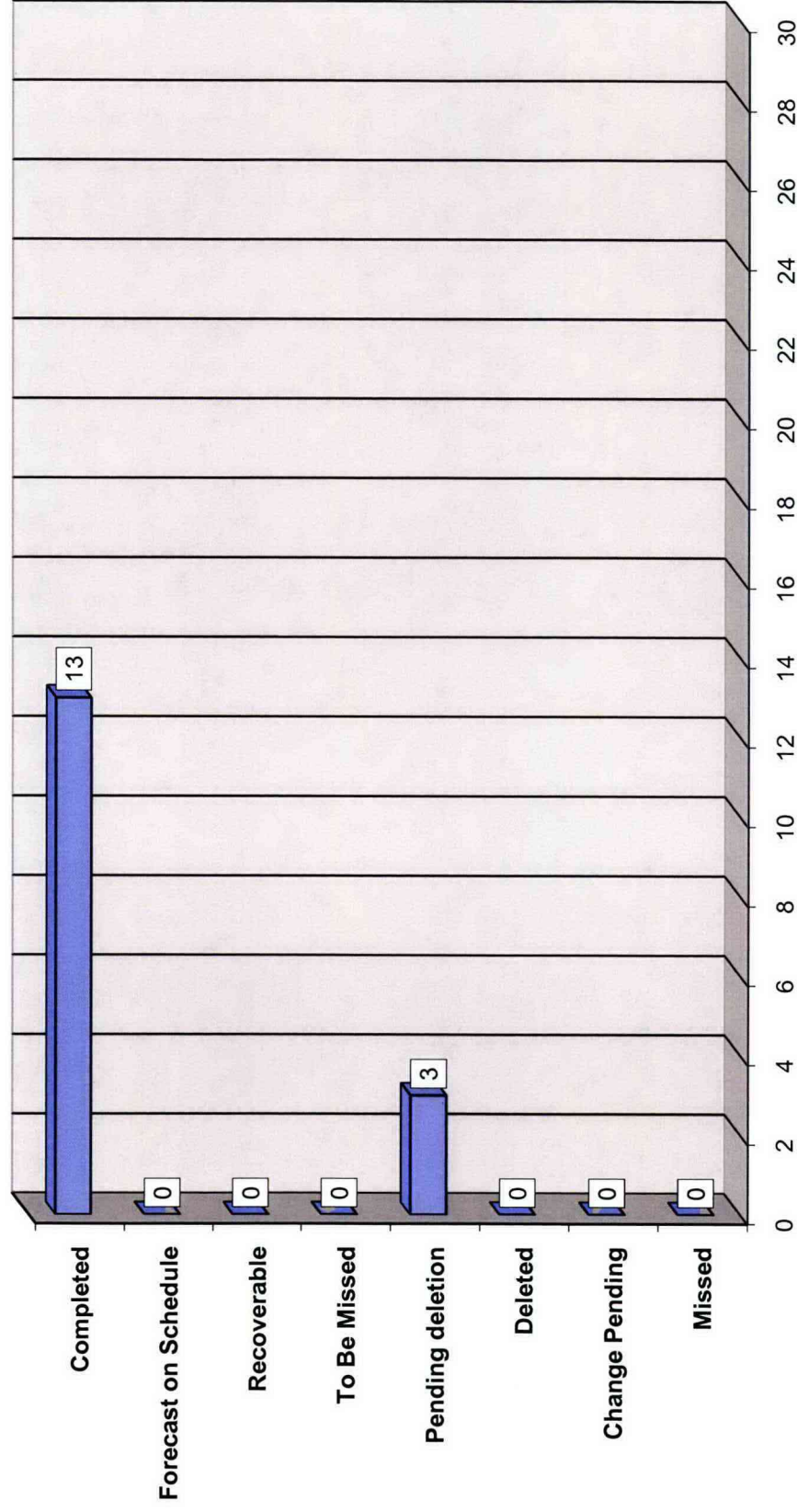
Page	Topic	Leads	Time
34	M-45, -50, -60 Single-Shell Tank Corrective Action	Bob Lober / Joe Caggiano	9:00
37	M-45-00, Complete Closure of All Single-Shell Tank Farms	Chris Kemp / Jeff Lyon	9:10
XX	M-62-40, Tank Waste System Plan	Ron Koll / Michelle Hendrickson	9:20
52	Interim Stabilization Consent Decree	John Long / Nancy Uziemblo	9:30
53	In Tank Characterization and Summary	John Long / Michael Barnes	9:35
54	M-47-00, Tank Waste Treatment, Storage and Disposal Facilities	Ben Harp / Michelle Hendrickson	9:40
56	M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/ Disposal of ILAW and M-20, Part B Permits	Ben Harp / Dan McDonald	9:45
57	M-62-00, Complete Pretreatment Processing and Vitrification of Tank Wastes	Ben Harp / Dan McDonald	9:50
23	FY 2010 ORP TPA Cost & Schedule Performance	Janet Diediker / Dan McDonald / Jeff Lyon	10:00
	BREAK		
3	TPA Milestone Statistics	Woody Russell / Dan McDonald / Jeff Lyon	10:15
59	BNI Cost & Schedule Performance for Immobilization Plant (WTP) Project	Wahed Abdul / Jeff Trent / Garth Reed / Dan McDonald	10:20

TPA Milestone Statistics

(Including target milestones)

Milestone	Due Date	Total Active as of 10/01/09	Milestone Number	Due Date	Milestone Number	Due Date
M-42-00A , Provide Additional DST Capacity	TBD	1	M-42-00A	TBD		
M-45-00 , Complete Closure of all SST Farms	01/31/43	19	M-45-70 M-45-80 M-45-81 M-45-82 M-45-83 M-45-84 M-45-85 M-45-86	12/31/40 01/31/11 09/30/14 09/30/15 06/30/19 01/31/17 01/31/22 12 months after each tank retrieval	M-45-13 M-45-15 M-45-56 M-45-59 M-45-61 M-45-62 M-45-90 M-45-91 M-45-92 M-45-100 M-45-101	06/30/11 06/30/11 TBD TBD 12/31/14 06/30/15 09/30/10 09/30/10 09/30/16 60 days after milestone adoption 60 days after milestone adoption
M-47-00 , Complete Work Necessary to Provide Facilities for Management of Secondary Waste from the WTP.	When WTP Achieves Initial Plant Operation	2	M-47-00	When WTP Achieves Initial Plant Operation	M-47-06	06/30/12
M-62-00 , Complete Pretreatment Processing and Vitrification of Hanford High Level (HLW) and Low Activity (LAW) Tank Wastes	12/31/47	12	M-62-01T M-62-01U M-62-20 M-62-21 M-62-30	01/31/10 07/31/10 06/30/10 02/28/23 12 months after milestone adoption	M-62-31-T01 M-62-32-T01 M-62-33-T01 M-62-34-T01 M-62-40 M-62-45 M-62-49	TBD TBD TBD TBD 10/31/10 04/30/15 10/31/11
M-90-00 , Interim Storage and Disposal of LAW and Interim Storage of HLW	When WTP Achieves Hot Start	2	M-90-00	When WTP Achieves Hot Start	M-90-11	12/31/12

FY 2006 MILESTONE PERFORMANCE



Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R26	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	10/31/05	10/31/05								
M-048-07A-A	Complete construction of the AZ-301 condensate return system and remove the AZ-151 catch tank system from service by October 31, 2005. This scheduled deliverable is a subset of M-48-07A, and thus labeled as M-48-07A-A.	10/31/05	10/24/05								
M-046-21	Complete Implementation Of Double Shell Tank Space Optimization Study Recommendations (Tank Space Options Report Document No. RPP-7702, April 12, 2001).	12/31/05	12/15/05								
M-062-01L	Submit Semi-Annual Project Compliance Report.	01/31/06	01/31/06								
M-045-02M	Submit biennial update to SST retrieval sequence document (agreement Appendix I. Section 2.1.2), double-shell tank space evaluation document and Ecology concurrence of additional tank acquisition.	3/1/06	3/13/06								

Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-048-07A-B	Completion of construction for the 241-AP-106A central pump pit upgrade (remove existing equipment, evaluate pit integrity, and replace pit coating, if necessary). This scheduled deliverable is a subset of M-48-07A, and thus labeled as M-48-07A-B.	3/31/06	3/30/06								
M-048-14	Submit Written Integrity Report For The Double-Shell Tank System.	3/31/06	3/31/06								
M-047-05A	Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial low-activity waste feed tank (other than AZ-101 or AZ-102).	4/30/06	12/29/04								
M-45-55-T04	Submit to Ecology for review and comment a draft Field Investigation Report combining the results of field investigations and analysis for WMAs A-AX, C and U. As part of the Phase 2 Vadose Zone project renegotiations being developed, this target milestone scope has been included in M-45-55 Phase 1 rollup documentation due in 1/08.	4/30/06								X	

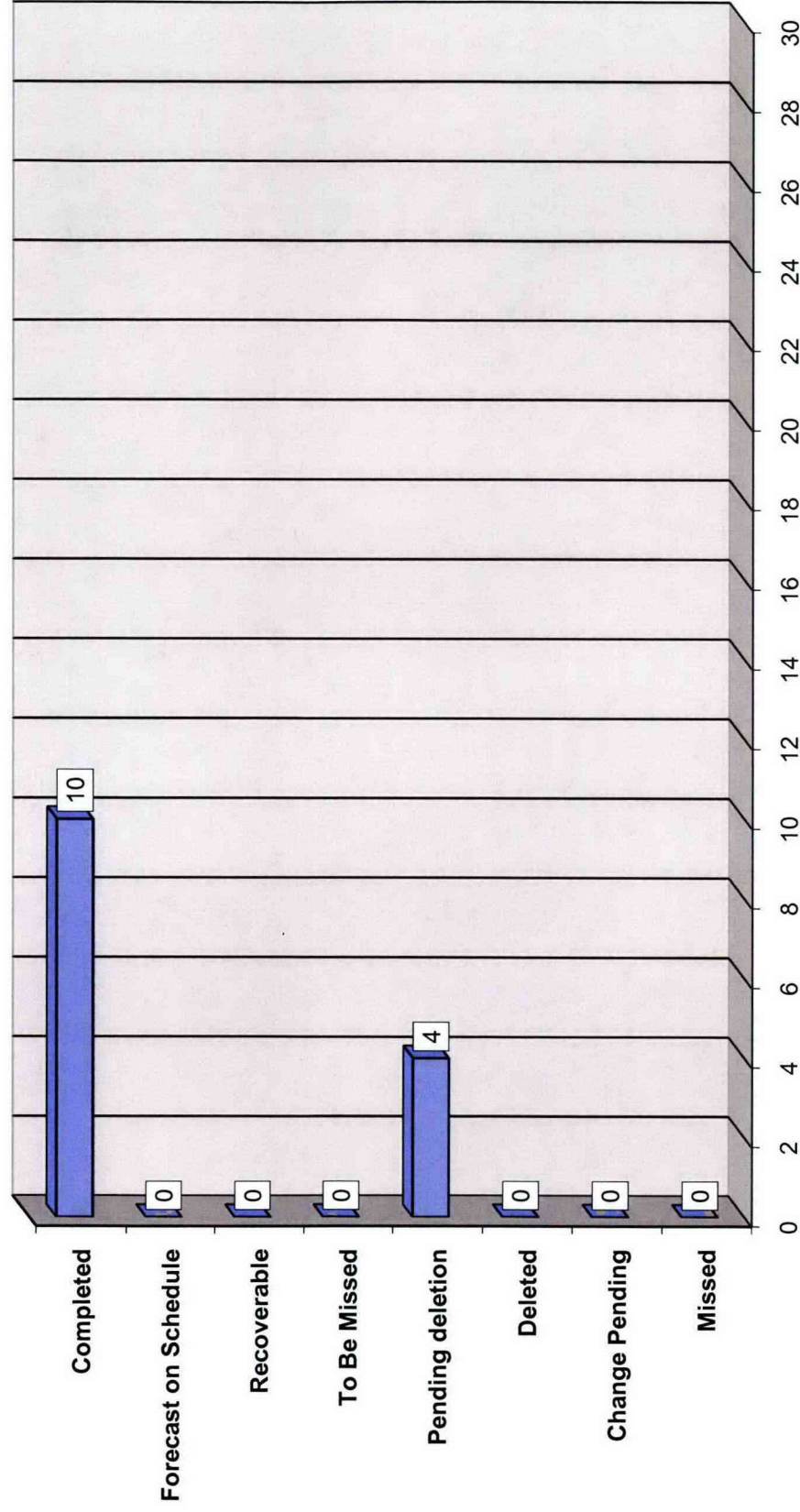
Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-048-07A	Complete construction of the AZ-301 condensate return system and pit upgrades. This includes: 1) Complete construction of the AZ-301 condensate return system and remove the AZ-151 catch tank system from service [see M 45-07A-A]; 2) Complete construction of AP-106A Central Pump upgrade [M-48-07A-B]; and 3) complete construction of SY-B Valve Pit upgrade [see M 48-07A-C].	06/30/06	06/08/06								
M-048-07A-C	Completion of construction for the 241-SY-B valve pit upgrade (remove existing equipment, evaluate pit integrity, and replace pit coating, if necessary). This scheduled deliverable is a subset of M-48-07A, and thus labeled as M-48-07A-C.	06/30/06	06/08/06								
M-048-07B	The Disposition of all Double-Shell Tank Transfer System Components that will not remain in use beyond June 30, 2005.	06/30/06	6/22/06								
M-062-08	Submittal Of Hanford Tank Waste Supplemental Treatment Technologies Report, Draft Hanford Tank Waste Treatment Baseline, And Draft Negotiations Agreement In Principle (AIP).	06/30/06							X		

Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-045-56B	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/01/06	07/01/06								
M-062-01M	Submit Semi-Annual Project Compliance Report.	07/31/06	07/31/06								
M-045-00B	Complete specified "near term" SST waste retrieval and interim closure activities, to result in the retrieval of all tank wastes in WMA-C SSTs pursuant to the agreement criteria in milestone M-45-00.	09/30/06							X		
M-045-00C	Initiate negotiation of SST waste retrieval and closure activities and associated schedules (for the period February 07 through August 08).	09/30/06							X		

FY 2007 MILESTONE PERFORMANCE



Fiscal Year 2007 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R30	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	10/31/06	10/31/06								
M-062-03	Submit DOE Petition for RCRA Delisting of Vitrified HLW.	12/31/06	12/22/06								
M-045-00C-A	Ecology and DOE negotiations under this milestone shall be completed within 120 days. In the event the parties do not reach agreement within timeframe, the negotiations will be resolved as a resolution of dispute via final determination. Unless otherwise agreed by Ecology and DOE, this final determination will be issued within 150 days of initiation of negotiations.	01/28/07							X		
M-062-01N	Submit Semi-Annual Project Compliance Report.	01/31/07	01/31/07								
D-001-00-R31	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	01/31/07	01/26/07								
M-045-05A	Complete Waste Retrieval from	3/31/07							X		

Fiscal Year 2007 Tri-Party Agreement Milestone Status

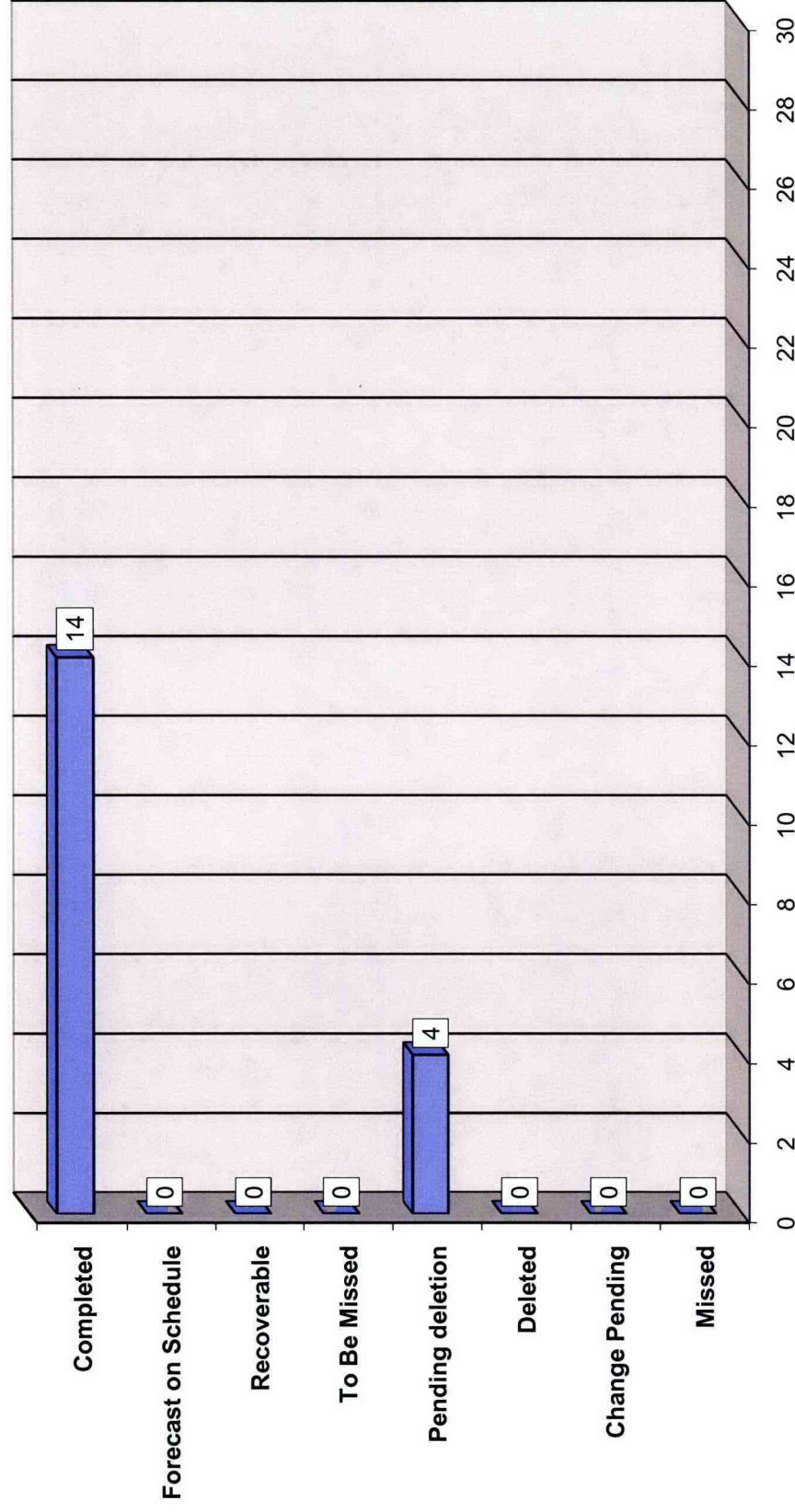
Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
S-102.											
D-001-00-R32	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	04/30/07	04/27/07								
M-062-11	Submit a Final Hanford Tank Waste Treatment Baseline. Following completion of negotiations required by M-62-08, DOE will modify its draft baseline as required and submit its revised, agreed-to baseline for treating all Hanford Tank Waste (HLW, LAW, and TRU) by 12/31/2028.	06/30/07							X		
M-045-56C	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/31/07	07/24/07								

Fiscal Year 2007 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R33	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	07/31/07	07/30/07								
M-062-01O	Submit Semi-Annual Project Compliance Report.	07/31/07	07/31/07								
M-048-15	Submit a report to Ecology for the re-examination of six (6) DSTs by ultrasonic testing in all areas previously examined to provide comparative data from which to calculate corrosion rates in each of the six DSTs examined.	09/30/07	09/26/07								
M-045-05-T05	Initiate tank retrieval from five additional single-shell tanks.	09/30/07							X		
M-048-00	Complete Tank Integrity Assessment activities for Hanford's Double Shell Tank (DST) system.	09/30/07	09/26/07								

* Milestone has been completed by ORP; Ecology has not yet concurred.

FY 2008 MILESTONE PERFORMANCE



Fiscal Year 2008 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R34	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	10/31/07	10/31/07								
M-045-13-A	Submit to Ecology a Retrieval Data Report for S-112 pursuant to Agreement Appendix I.	12/31/07	12/21/07								
M-045-13-B	Remaining waste has been adequately characterized, and a risk assessment completed for S-112 residuals that remain in the tank.	12/31/07	12/21/07								
M-062-07B	Complete Assembly of LAW Vitrification Facility melter #1 and complete move of #1 melter into the HLW Vitrification Facility	12/31/07							X		
M-062-01P	Submit Semi-Annual Project Compliance Report.	01/31/08	01/31/08								
M-045-55	Submit to Ecology a Phase 1 RFI report integrating results of data gathering activities and evaluations for all SST WMAs.	01/31/08	01/30/08								

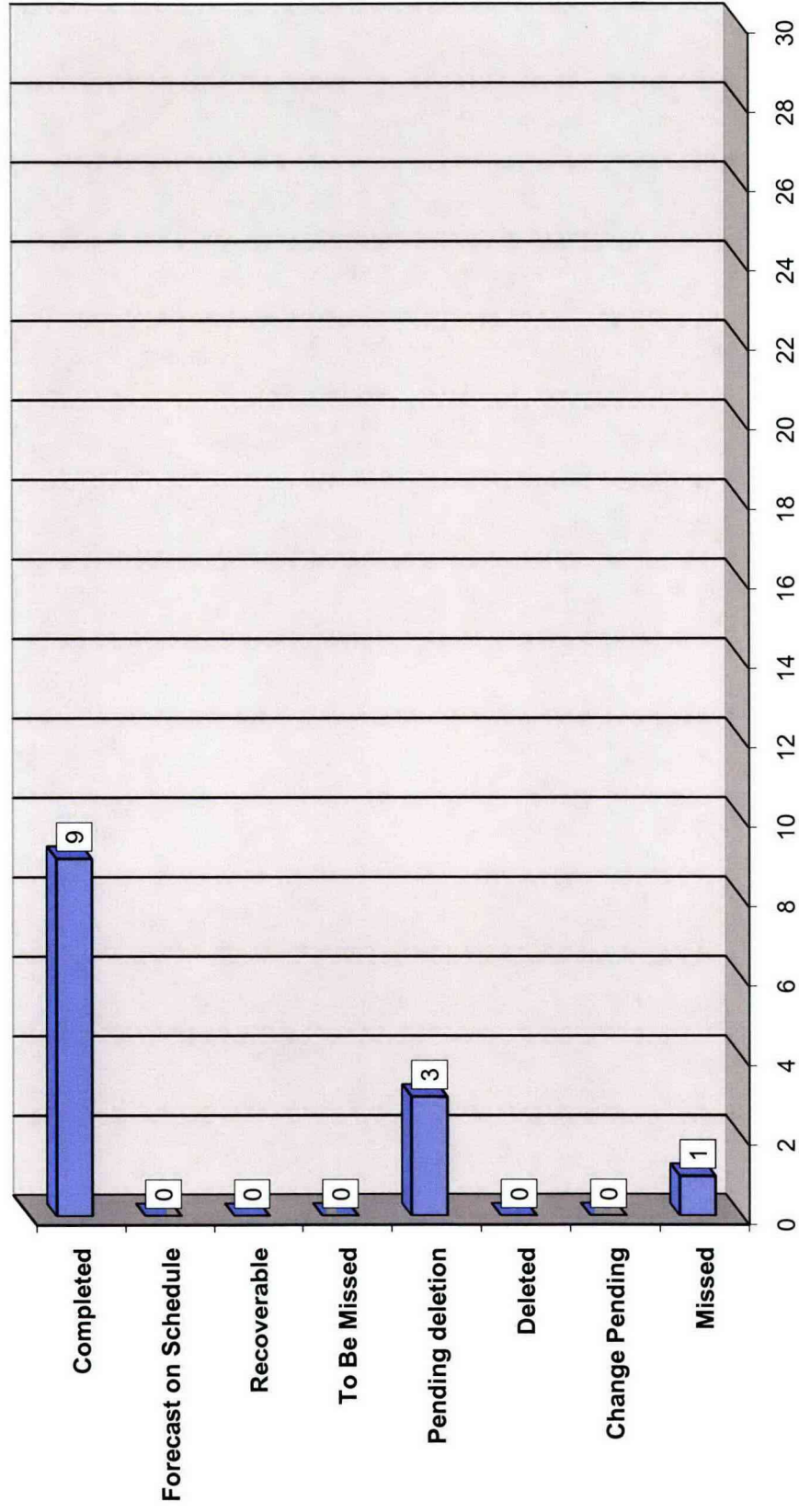
Fiscal Year 2008 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R35	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	01/31/08	01/31/08								
M-045-00D	Initiate negotiations of SST waste retrieval and closure for 2008-2013.	01/31/08							X		
M-045-02N	Submit Biennial Update.	03/01/08	02/29/08								
M-045-02N-A	Three Parties shall meet to establish new milestones within 60 days, if required, for acquisition of additional tanks.	06/02/08	01/22/09								
D-001-00-R36	DOE shall, on a quarterly basis, submit to ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	04/30/08	04/30/08								
M-045-00D-A	Negotiations shall be complete within 150 days.	06/29/08							X		

Fiscal Year 2008 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
M-045-56D	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/31/08	07/22/08								
D-001-00-R37	DOE shall, on a quarterly basis, submit to ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	07/31/08	07/31/08								
M-062-01Q	Submit Semi-Annual Project Compliance Report.	07/31/08	07/30/08								
M-090-10	Ready to accept placement of ILAW in ILAW Disposal Facility.	08/31/08	02/13/07								
M-45-05-T06	Initiate tank retrieval from five additional SSTs.	09/30/08							X		
M-045-XX	Remove pumpable liquid from Catch Tank S-302	9/30/08	9/30/08								

FY 2009 MILESTONE PERFORMANCE



Fiscal Year 2009 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R38	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	10/31/08	10/28/08								
M-045-58	Submit to Ecology for Review and Approval as an Agreement Primary Document Phase 2 Master Work Plan that describes the proposed approach for the completion of Corrective Action to meet final closure requirements in the Waste Management Areas as described in Appendix I, Section 2.3	12/31/08	12/18/08								
M-045-60	Submit to Ecology for review and approval as an agreement primary document, DOE's Phase 2 RFI/CMS Work Plan and Sampling and Analysis Plan (SAP) for WMA C.	12/31/08	12/18/08								
M-062-01R	Submit Semi-Annual Project Compliance Report	01/31/09	01/30/09								

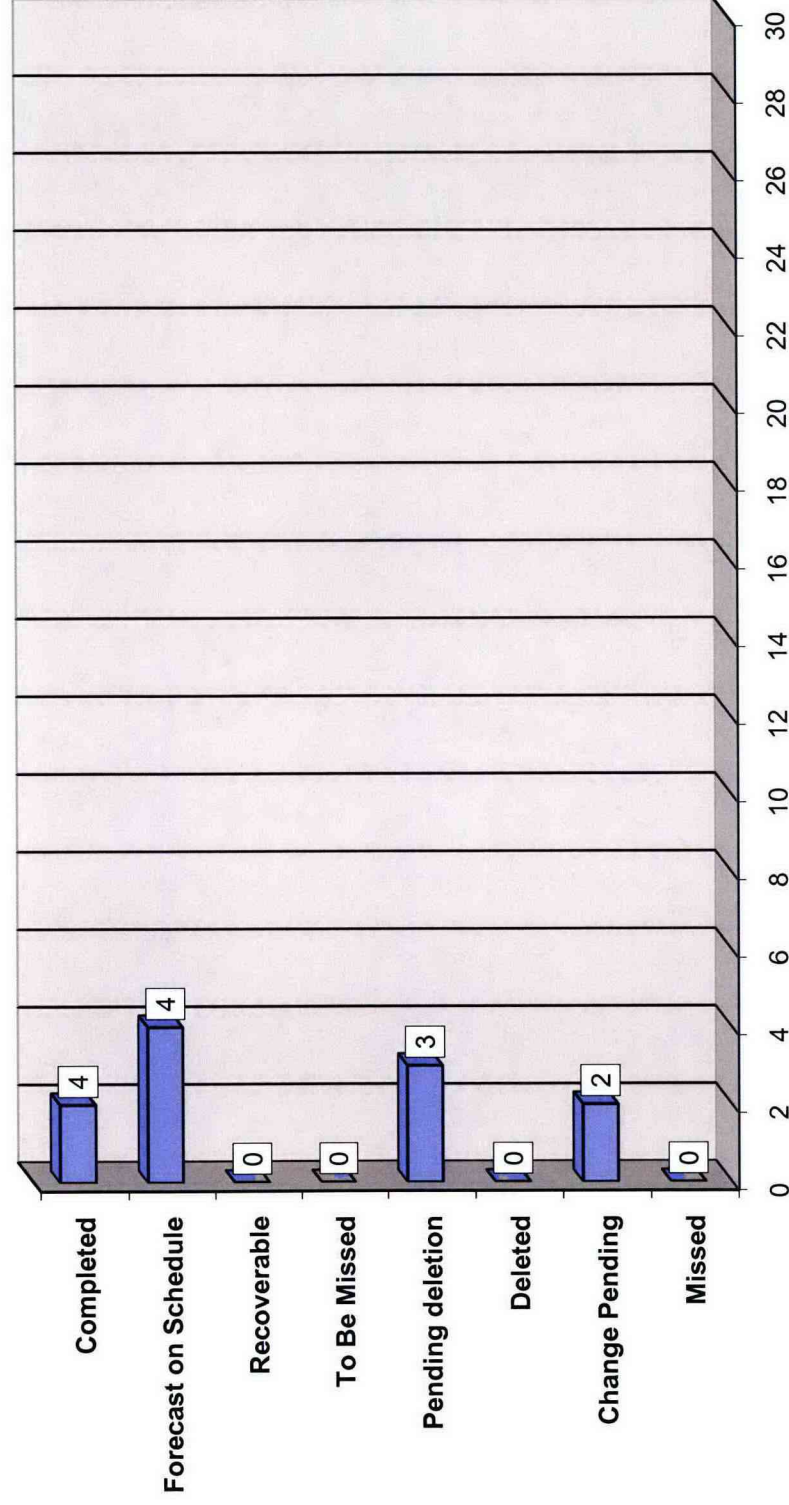
Fiscal Year 2009 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R39	DOE shall, on a quarterly basis, submit to Ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	01/31/09	01/30/09								
M-062-09	Start Cold Commissioning – Waste Treatment Plant	02/28/09							X		
M-47-03A	Complete startup/turnover for waste retrieval mobilization systems for selected initial tank high-level waste feed tank	03/31/09							X		
D-001-00-R40	DOE shall, on a quarterly basis, submit to ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	04/30/09	04/29/09								
M-045-56E	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/31/09	07/21/09								

Fiscal Year 2009 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R41	DOE shall, on a quarterly basis, submit to ecology a written report documenting tank stabilization activities that occurred during the period covered by the report. This written report shall provide the status of progress made during the reporting period.	07/31/09	07/31/09								
M-062-01S	Submit Semi-Annual Project Compliance Report	07/31/09	07/31/09								
M-045-05-T07	Initiate tank retrieval from 7 additional SSTs	09/30/09						X	X		

FY 2010 MILESTONE PERFORMANCE



Fiscal Year 2010 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Will Be Missed	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00R-42 (existing)	Quarterly Report	10/31/09	10/28/09								
D-001-00R-43 (existing)	Quarterly Report	01/31/09	1/28/10								
D-001-00R-44 (existing)	Quarterly Report	04/30/10	4/30/2010								
D-001-00R-45 (existing)	Quarterly Report	07/31/10		X							
M-45-02O (existing)	Biennial Update to SST Waste Retrieval Sequence	03/01/10							X		
M-45-02O-A (existing)	New SST milestones within 60 days	04/30/10							X		
M-45-05-T08 (existing)	Initiate Tank Retrieval from 8 Additional SSTs	09/30/10							X		
M-45-56F (existing)	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/31/10		X							
M-62-01T (existing)	Submit Semi-Annual Project Compliance Report	01/31/10	1/29/10								
M-62-01U (existing)	Submit Semi-Annual Project Compliance Report	07/31/10		X							
M-47-06 (existing)	Complete Negotiation of Agreement Requirements-Treatment Complex	06/30/10									X
M-90-11 (existing)	Complete Canister Storage Facility Construction	08/31/10									X

General

The earned value analysis is a comparison of cost and schedule contract-to-date performance. The earned value performance reporting reflects the format, Work Breakdown Structure (WBS) reporting levels, and variance thresholds as agreed to with the Tank Farms Operations Contractor (TOC) for monthly performance reporting.

The earned value analysis is not intended to be a measurement of performance against existing Tri-Party Agreement Milestones.

TANK OPERATIONS CONTRACT (TOC) OVERVIEW

WRPS March Project Performance - (\$k)								
	BCWS	BCWP	ACWP	SV	CV	SPI	CPI	BAC
CM	34,430.5	38,855.8	34,819.7	4,425.2	4,036.1	1.13	1.12	
FYTD	176,246.0	185,843.1	173,705.3	9,597.1	12,137.8	1.05	1.07	463,792.7
CTD	462,985.6	463,117.8	435,372.8	132.2	27,744.9	1.00	1.06	2,058,653.6
Red shaded cells indicates a SPI/CPI less than .90; Green shaded cells indicate a SPI/CPI between .90 and .99; and Blue shaded indicates a SPI/CPI greater than or equal to 1.								

The TOC CTD cost performance index (CPI) through March is 1.06 with a schedule performance index (SPI) of 1.00. The FY10 CPI through March is 1.07 with a SPI of 1.05. Current month (CM) performance was favorable with a CPI of 1.12 and a SPI of 1.13. The CM SPI is a result of successful waste retrieval operations in Single-shell Tank (SST) C-104 and Waste Treatment Plant (WTP) Support execution plan alignment for Lithium/Bayer Pretreatment and Next Generation Melter Programs with receipt of Technology development and demonstration (TD&D) funds from DOE.

The overall CTD schedule variance (SV) for TOC is \$132K.

WRPS March CTD Project Performance by Level 2 WBS (\$K)										
	CTD BCWS	CTD BCWP	CTD ACWP	CTD SV	CTD CV	CTD SPI	CTD CPI	BAC	EAC	VAC
5.1- Base Operations	330,085.6	330,685.5	313,901.3	599.9	16,784.2	1.00	1.05	1,234,361.3	1,218,688.0	15,673.3
5.2- Retrieval and Close SSTs	90,364.7	87,740.1	86,884.3	(2,624.6)	855.8	0.97	1.01	406,301.9	399,397.0	6,904.9
5.3- WFD/Treatment Plng/DST Retrieval/Closure	41,464.0	43,789.0	33,917.4	2,324.9	9,871.6	1.06	1.29	381,037.5	373,414.3	7,623.2
5.4- Supplemental Treatment	1,071.2	903.1	669.8	(168.1)	233.3	0.84	1.35	23,500.7	23,665.7	(165.0)
5.5- Treat Waste	-	-	-	-	-	-	-	13,452.2	13,452.2	0.0
Total	462,985.6	463,117.8	435,372.8	132.2	27,744.9	1.00	1.06	2,058,653.6	2,028,617.2	30,036.4

TOC CTD favorable CV of \$27,745K is driven by:

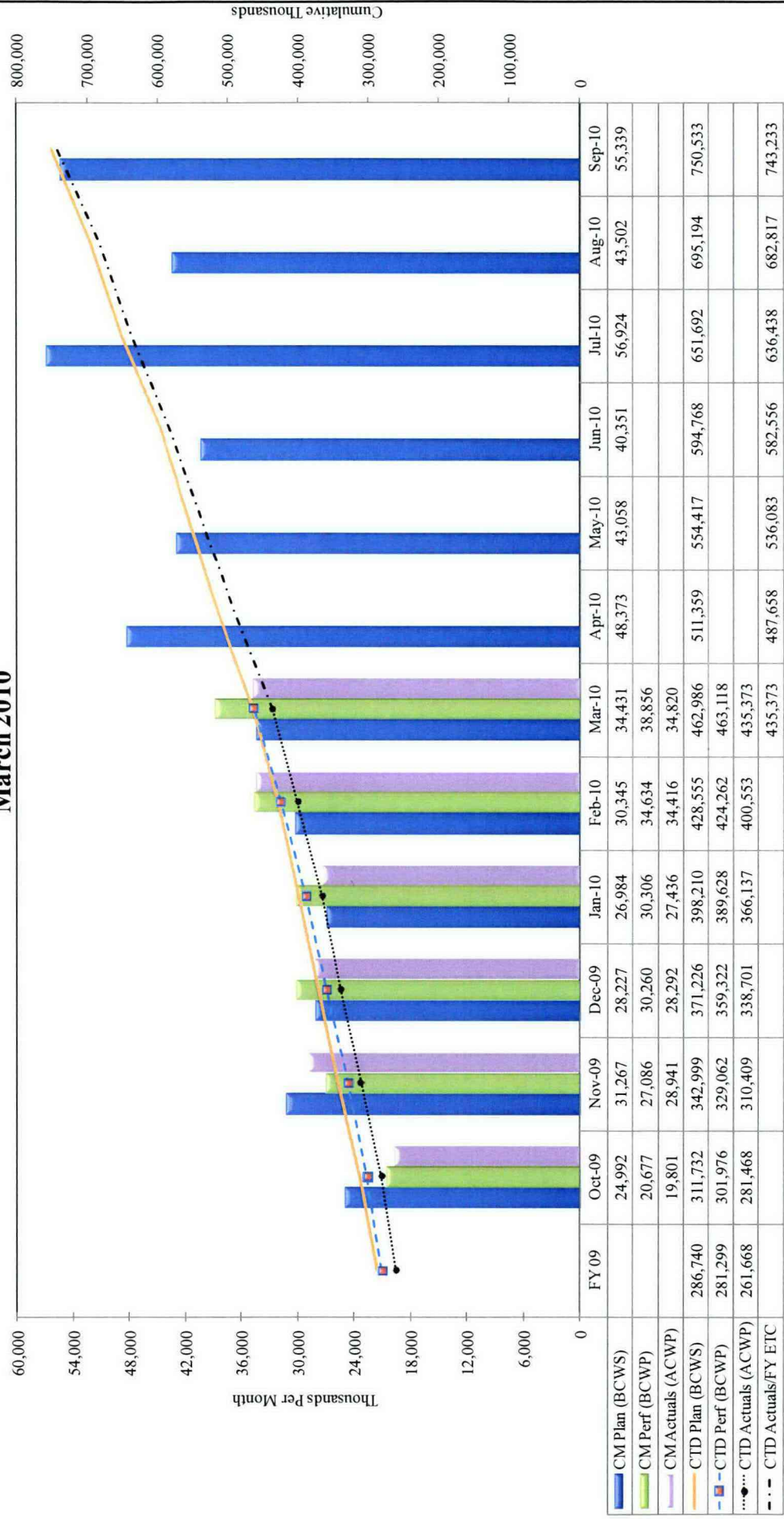
- Base Operations, \$16,784K:** 1) lower allocation of applicable G&A/COP costs than planned resulting from RA Program under runs; 2) continuous cost under runs/savings realized in operations; however, it is being partially offset with maintenance over runs. 3) reduction of the planned Washington State Department of Revenue B&O tax rate due to the utilization of the high technology credit, a continuity of services over liquidation which occurred in FY09, and travel credits for trips that did not occur; 4) FY 09 unfilled positions in Facilities and Property Management; 5) lower material expenditures due to receipt of items from Yucca Mountain and efficiencies in Information Resource Management.
- WFD/Treatment Planning/DST Retrieval/Closure, \$9,872K:** 1) the AW COB Isolation construction contract is significantly below initial estimates, and less field time was required; 2) \$443k transfer to SRNL for the Bench Scale Demonstration which is not captured as WRPS actual cost; and the Small Scale Mixing Demonstration Plan completed significantly under original estimate; 3) *WFD PE/Flow Sheet*, \$739k: cost for the development of PE/ flow sheets (contract) is lower than anticipated at this time and lower cost is associated with a vacant engineer position; 4) delays in hiring staff for the WFD Technical Baseline and TWINS Database Management including delays in issuing subcontracts; 5) due to delays in technical and cost evaluations associated with Recovery Act which required resolution prior to issuing the contract.

CONTRACT-TO-DATE PERFORMANCE MEASUREMENT - 10/2008 - 03/2010**BY WORK BREAKDOWN STRUCTURE**

Dollars in Thousands

		Cumulative Contract-To-Date				Variance				
		Budgeted Cost		Actual Cost		Schedule	SV%	CV%	Cost	Budget at Completion (BAC)
WBS	TITLE	Work Scheduled	Work Performed	Work Performed	Work					
5.1	BASE OPERATIONS									
5.1.1	Base Operations	109,688.6	110,812.2	111,528.9	1,123.6	1,123.6	1.0%	-0.6%	-716.7	398,069.2
5.1.2	DST Space Management	10,729.6	8,810.7	11,877.7	(1,918.9)	(1,918.9)	-17.9%	-34.8%	-3,067.0	41,411.4
5.1.3	TOC Facility Operations	37,843.6	37,313.9	34,696.8	(529.7)	(529.7)	-1.4%	7.0%	2,617.1	148,849.1
5.1.4	Tank Farm Upgrades	21,157.3	23,994.1	18,168.9	2,836.8	2,836.8	13.4%	24.3%	5,825.2	124,615.4
5.1.5	Project Support	150,666.6	149,754.8	137,629.0	(911.8)	(911.8)	-0.6%	8.3%	12,495.7	521,416.3
	TOTAL	330,085.7	330,685.7	313,901.3	600.0	600.0	0.2%	5.2%	17,154.3	1,234,361.4
5.2	RETRIEVE AND CLOSE SSTs									
5.2.1	Retrieval/Closure Program	47,872.5	47,727.6	42,648.0	(144.9)	(144.9)	-0.3%	10.6%	5,079.6	163,929.6
5.2.2	SST Retrieval East Area	37,587.9	35,332.6	40,819.5	(2,255.3)	(2,255.3)	-6.0%	-15.5%	-5,486.9	206,424.5
5.2.3	SST Retrieval West Area	1,088.1	1,236.4	993.1	148.3	148.3	13.6%	23.5%	290.0	3,544.0
5.2.4	Closure Program	2,203.5	2,166.2	1,844.1	(37.3)	(37.3)	-1.7%	14.9%	322.1	8,965.4
5.2.5	SST Closure	1,612.7	1,277.4	579.6	(335.3)	(335.3)	-20.8%	19.0%	243.1	23,438.4
	TOTAL	90,364.7	87,740.2	86,884.3	(2,624.5)	(2,624.5)	-2.9%	0.5%	447.9	406,301.9
5.3	WFD/TREATMENT PLNG/DST RETRIEVAL/CLOSURE									
5.3.1	WTP Feed Delivery Program	19,484.2	19,663.9	15,015.6	179.7	179.7	0.9%	23.6%	4,648.3	86,298.1
5.3.2	Construct DST Retrieval Systems	5,661.3	5,537.4	4,961.2	(123.9)	(123.9)	-2.2%	10.4%	576.2	102,852.1
5.3.3	RA - Transfer System Mod Project	1,643.9	3,343.6	2,375.1	1,699.7	1,699.7	103.4%	29.0%	968.5	20,732.2
5.3.6	Immobilization Program	3,733.3	3,727.9	2,294.0	(5.4)	(5.4)	-0.1%	38.5%	1,433.9	36,281.7
5.3.7	WTP Operational Readiness	3,439.7	3,449.8	3,049.0	10.1	10.1	0.3%	11.6%	400.8	16,219.4
5.3.8	East Area Waste Receiving Facility	490.8	448.4	173.2	(42.4)	(42.4)	-8.6%	61.4%	275.2	490.8
5.3.9	Tank Waste Pretreatment Project	961.3	930.9	746.1	(30.4)	(30.4)	-3.2%	19.9%	184.8	30,836.3
5.3.10	Secondary Waste Treatment/ETF	3,296.1	3,438.2	3,034.5	142.1	142.1	4.3%	11.7%	403.7	35,542.3
5.3.11	Next Generation Projects	2,753.4	3,249.0	2,268.6	495.6	495.6	18.0%	30.2%	980.4	51,784.5
	TOTAL	41,464.0	43,789.1	33,917.3	2,325.1	2,325.1	5.6%	22.5%	9,871.8	381,037.4
5.4	SUPPLEMENTAL TREATMENT									
5.4.1	Supplemental Treatment	1,071.2	903.1	669.8	(168.1)	(168.1)	-15.7%	25.8%	233.3	23,500.7
5.5										
Monthly F 5.5.2	Waste Treatment Facility	0.0	0.0	0.0	0.0	0.0	0.0%	0.0%	0.0	13,452.20
TOC TOTAL		462,985.6	463,117.8	435,372.8	132.2	132.2	0.0%	6.0%	27,744.9	2,058,653.6

FY10 WRPS Cumulative-to-Date Performance (\$k) March 2010



***YELLOW SHADED CELLS ON THE FOLLOWING TABLES INDICATE THE VARIANCE IS REPORTABLE.**

5.01.01 - BASE OPERATIONS

WBS 5.01.01.01 - Base Operations Project Management

March 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	218.5	218.5	(157.3)	0.0	0%	375.8	172%	1.00	(1.39)	
CTD	4,812.5	4,812.5	4,205.1	0.0	0%	607.3	13%	1.00	1.14	14,973.4

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$607k is reportable:

Description/Cause: due to FY09 staff than planned in Project Management, ESH&Q; and American Recovery and Reinvestments Act (ARRA) pre-planning effort was accomplished with fewer resources than expected.

WBS 5.01.01.03 - TSR Administrative Controls

March 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	193.4	291.0	335.2	97.6	50%	(44.1)	(15%)	1.50	0.87	
CTD	5,155.4	5,101.5	5,660.4	(53.9)	(1%)	(558.8)	(11%)	0.99	0.90	14,289.4

Schedule and Cost Variance Analysis

The unfavorable CTD CV of (\$559k) is reportable:

Description/Cause: due to increased labor in FY09 to support the identification of a potential for AZ-102 grab samples that had higher dose rates than originally expected which required extensive re-work of the work package and several additional mock-ups were held to determine how the higher dose rate samples would be obtained.

WBS 5.01.01.04 - Core Services

March 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	130.6	130.6	(90.6)	0.0	0%	221.2	169%	1.00	(1.44)	
CTD	3,432.4	3,432.4	2,760.8	0.0	0%	671.6	20%	1.00	1.24	9,518.2

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$672k is reportable:

Description/Cause: due to the Bargaining Unit Training account was discontinued and the cost is being moved to DST/SST Maintenance and Essential Services accounts.

WBS 5.01.01.05 - Tank Chemistry and Integrity

March 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	1,233.9	1,618.1	1,078.3	384.2	31%	539.8	33%	1.31	1.50	
CTD	13,567.6	13,876.9	11,207.9	309.3	2%	2,669.1	19%	1.02	1.24	71,674.8

Schedule and Cost Variance Analysis

The favorable CTD CV of \$2,669k is reportable:

Description/Cause: due to 1) efficiencies in the AY-101 Corrosion Probe activity achieved by the subcontractors during the design and fabrication efforts as a result of designing two (2) similar probes with the same functional characteristics as opposed to each probe having unique functional characteristics. Labor efficiencies were also achieved as a result of installing the AY-101 and AY-102 Corrosion Probes at the same time due to the close proximity of the tanks and the ability to combine the field work. Additional savings are due to DST Integrity Laboratory activities requiring less support than estimated. 2) labor efficiencies in AW-101 and AW-105 UT Examinations were realized during field activities when the examinations were performed back-to-back due to the availability of resources and the close proximity of the tanks. Labor efficiencies were also realized with the AW-106 UT field preparations and UT field scanning activities due to cleaner than expected surface conditions of the tank wall which required less than normal wall cleaning. 3) labor efficiencies resulting from using research that was already completed for the implementation of the SST Integrity Project plan.

5.01.02 - DST SPACE MANAGEMENT

March 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	1,825.9	11.9	778.2	(1,813.9)	(99%)	(766.3)	(6417%)	0.01	0.02	
CTD	10,729.6	8,810.7	11,877.7	(1,918.9)	(18%)	(3,067.1)	(35%)	0.82	0.74	41,411.4

Schedule and Cost Variance Analysis

The unfavorable CTD SV (\$1,919k) is reportable:

Description/Cause: due to 1) six (6) week delayed start and completion on the 242-A Evaporator Campaign and the implementation of a schedule correction for the Evaporator CM/PM activity. 2) as found conditions in the DST Valve Pits and degrading transfer equipment requiring repairs prior to the transfer, i.e. Leak at Nozzle "L" in AZ Valve Pit.

The unfavorable CTD CV (\$3,067k) is reportable:

Description/Cause: due to 1) additional cost associated with the 242-A pre-campaign maintenance and several unplanned high-risk corrective maintenance activities. Overtime is being utilized to recover/maintain the FY10 Campaign schedule. 2) the utilization of OT to identify the extent of the problems with the leaking Nozzle L in AZ valve pit and to revise the procedures to account for the pre/post flushing of the valve pit.

5.01.04 – TANK FARM UPGRADES

March 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	2,747.9	4,752.5	3,906.7	2,004.7	73%	845.8	18%	1.73	1.22	
CTD	21,157.3	23,994.1	18,168.9	2,836.8	13%	5,825.1	24%	1.13	1.32	124,615.4

Schedule and Cost Variance Analysis

The favorable CTD SV of \$2,837k of which \$2,643k is RA is reportable:

Description/Cause: due to 1) completion of PC-5000 Leak Detection Upgrades five (5) months ahead of schedule for the 242-A Evaporator; the acceleration of the Condenser Room Ductwork project by five (5) months; and the progress made on the Vendor's Preliminary Design Package of the Exhauster Upgrade. 2) receipt of the DST valves for jumper replacement six (6) months ahead of schedule; 80% of the work associated with installation of the replacement valve funnel, indicator plate, and adjustable pointer for AP-02A has been completed four (4) months ahead of schedule; completed the AP-VP jumper fabrication drawings, awarded the AP-VP jumper fabrication contract, sent staging of the purex parts to fabricator, and has begun fabrication for the AP Valve Pit Jumper all of which were planned for FY11.

The favorable CTD CV of \$5,825k of which \$4,765k is RA is reportable:

Description/Cause: due to 1) the DST Farm Vent Reliability Study completed significantly under budget because it is determined through technical evaluations that the AN Exhauster Evaluation bounds all the HVAC systems and resolving the NEC issues in the SY Farm and the DST Farm Replace Drain Seals project has been more efficient than planned because a dedicated team was assigned to support the projects and once in the field, the team worked the job until complete. 2) lower cost for Request for Offsite Services (ROS) staff as a result of a lower field rate than planned and efficiencies gained through tank farm walk downs for Drawing Reconstitution. 3) subcontractor cost for the drawing/evaluations that were performed on the Cathodic Protection were less than planned and less field effort was required to perform the rectifier adjustments. 4) less hours needed to prepare the engineering documents to support the Demolish AN and AW Exhauster projects, lower rate engineering resources, and the delay in field work for the Demolish AN/AW exhauster and DST Obsolete Equipment projects. 5) efficiencies gained by consolidating task to obtain baseline field information and using existing engineering documents. In addition, work scope was advanced that did not require engineering staff which caused additional savings. 6) completed PC-5000 Leak Detection Upgrades at a lower cost due to use of matrixed staff,

lower bid on the construction, and more cost effective approach was taken on the design of the Leak Detection replacement. 7) lower vendor cost than planned on the valve funnels indicator plates and pointers, and the cost for the design engineering for the AP-VP, AN-A, and AN-B jumper assemblies are delayed by one (1) month due to design issues.

5.01.05 - PROJECT SUPPORT

WBS 5.01.05.01 - Project Integration (PI)

March 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	1,040.0	1,084.9	741.4	44.9	4%	343.5	32%	1.04	1.46	
CTD	13,872.7	13,631.4	11,076.1	(241.3)	(2%)	2,555.3	19%	0.98	1.23	60,957.2

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$2,555k is reportable:

Description/Cause: due to 1) fewer FTE and fewer contracts than planned to support planned activities for construction and commissioning activities. 2) lower labor cost from using administrative staff to backfill needs, lower labor rates than planned, realized cost quantities of materials was lower than anticipated, and lower subcontractor costs associated with effectiveness reviews within Project Integration and Interface Management. 3) labor under runs as a result of vacant staff positions and limited use of ROS support for Estimating and Project Review Board.

WBS 5.01.05.09 – RA- Project Support

March 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	2,680.7	2,520.6	2,244.8	(160.1)	(6%)	275.8	11%	0.94	1.12	
CTD	30,409.8	30,240.5	21,031.8	(169.3)	(1%)	9,208.8	30%	0.99	1.44	71,913.8

Schedule and Cost Variance Analysis

The favorable CTD CV of \$9,209k is reportable:

Description/Cause: due to 1) lower allocation of applicable G&A/COP costs than planned, rates for subcontracts, including ROS, was less than planned and two (2) unfilled labor positions. 2) less training cost for RA employees decreasing HAMMER cost and use of training professionals. 4) unfilled engineering positions.

5.02.01 - RETRIEVAL/CLOSURE PROGRAM

March 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	3,399.9	3,853.6	2,800.5	453.7	13%	1,053.1	27%	1.13	1.38	
CTD	47,872.5	47,727.6	42,648.0	(144.9)	(0%)	5,079.6	11%	1.00	1.12	163,929.6

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$5,080k is reportable:

Description/Cause: due to 1) efficiencies realized in engineering and field by grouping multiple hoses together to work in parallel and several HIHTLs were less contaminated than anticipated, therefore not requiring flushing or high radiation controls. 2) Catch Tank & Pipeline Reporting efficiencies gained by using direct labor rather than contract support for the initial planning scope, preparing the report using an existing database, and the use of in house, rather than subcontract personnel for finalization and comment resolution of the report.

5.02.02 - SST RETRIEVAL EAST AREA

March 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	3,106.4	4,532.5	3,312.2	1,426.1	46%	1,220.3	27%	1.46	1.37	
CTD	37,587.9	35,332.6	40,819.5	(2,255.3)	(6%)	(5,486.9)	(16%)	0.94	0.87	206,424.5

Schedule Variance and Cost Variance Analysis

The unfavorable CTD CV of (\$5,487k) is reportable:

Description/Cause: primarily due to C-104 Retrieval related to increased planning and preparatory work required to complete 04-A jumper removal, pump removal/disposal, and sluicer installation due to impacts from high radiation readings in the 04-A pit and added costs for 04-B pit water removal. In addition, compliance with Commercial Grade Item Dedication (CGID) has resulted in additional labor and material costs for rework of QA Inspection Plans, including rigorous inspections and travel to vendor facilities. The CGIDs are required for the acceptance and/or re-procurement of Safety Significant components in jumper and other system assemblies. Additionally, overtime for completion of construction and construction testing has increased actual cost. Problems during startup and readiness activities associated with the AN-101 OAT including removal of the burst disc from the 04-B pit, additional engineering analyses required to license the 04-B discharge pressure and activities associated with the C-104 OAT including water freeze-up; missing packing nuts from diversion box valves and repair of the Pressure/Flow Indicators and rework of the flow and pressure instruments in the POR138 valve box. Costs to repair the flow elements, issues with AN-101 pump nitrogen seals, vapor issues and idling retrieval crews have been direct contributors.

The CTD CV is offset favorable CV in C-110 Retrieval due primarily to efficiencies captured during C-110 retrieval (Actual slurry volume loading by percent was much higher than the model predicted resulting in additional cost savings).

5.02.05 - SST CLOSURE

March 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	223.8	131.5	56.1	(92.3)	(41%)	75.5	57%	0.59	2.35	
CTD	1,612.7	1,277.4	579.6	(335.3)	(21%)	697.8	55%	0.79	2.20	23,438.4

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$698k is reportable:

Description/Cause: due to efficiencies realized in project management and in Situ Stabilization that required fewer FTEs than planned.

5.03.01 - WTP FEED DELIVERY PROGRAM

March 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	1,832.1	1,646.1	1,689.8	(186.0)	(10%)	(43.7)	(3%)	0.90	0.97	
CTD	19,484.2	19,663.9	15,015.6	179.7	1%	4,648.3	24%	1.01	1.31	86,298.1

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$4,648k is reportable:

Description/Cause: due to 1) \$443k transfer to SRNL for the Bench Scale Demonstration which is not captured as WRPS actual cost and the Small Scale Mixing Demonstration Plan was completed significantly under original estimate. 2) cost for the development of support flow sheets (contract) is lower than anticipated at this time and lower cost is associated with a vacant engineer position. 3) delays in hiring staff resulting in labor under runs and delay in issuing subcontracts for WFD Technical Baseline and Tank Waste Data Management. 4) delays in technical and cost evaluations due to scope uncertainties. 5) unfilled staffing positions in support of the RPP System Plan. 6) \$150k transfer to SRNL for WFD Technology Development and additional labor was not required to support subcontract work tasks. 8) work scope was deleted and is now part of the SST Retrieval Acceleration proposal.

5.03.02 - CONSTRUCT DST SYSTEMS

March 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	526.7	500.1	448.5	(26.6)	(5%)	51.6	10%	0.95	1.12	
CTD	5,661.3	5,537.4	4,961.2	(124.0)	(2%)	576.2	10%	0.98	1.12	102,852.1

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$576k is reportable:

Description/Cause: due to 1) efficiencies gained in designing the removal of obsolete equipment that is similar in AW and SY Farms; field work has not started due to upcoming power outage at SY Farm; and Engineering Change Notice (ECN) issues were found that delayed work package approval process.

5.03.03- RA- TRANSFER SYSTEM MOD PROJECT

March 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	448.6	1,168.4	446.8	719.8	160%	721.6	62%	2.60	2.61	
CTD	1,643.9	3,343.6	2,375.1	1,699.7	103%	968.4	29%	2.03	1.41	20,732.2

Schedule Variance and Cost Variance Analysis

The favorable CTD SV of \$1,700k is reportable:

Description/Cause: due to acceleration of COB removal activities and less field time required than planned as a result of a strong working relation between HAMTC (HPT's), engineering and experienced construction craft.

The favorable CTD CV of \$968k is reportable:

Description/Cause: due to RA- AW COB Isolation, \$1,352k: the construction contract for AW COB Isolation is significantly below initial estimates and less resources required..

5.03.11 – NEXT GENERATION PROJECTS

March 2010 (\$k)

	BCWS	BCWP	ACWP	SV	SV%	CV	CV%	SPI	CPI	BAC
CM	(98.0)	501.5	423.0	599.5	(611%)	78.5	16%	(5.11)	1.19	
CTD	2,753.4	3,249.0	2,268.6	495.5	18%	980.3	30%	1.18	1.43	51,784.5

Schedule Variance and Cost Variance Analysis

The favorable CTD CV of \$980k is reportable:

Description/Cause: due to 1) less labor cost than planned and efficiencies gained by performing Test Plans and Procedures in parallel.

Milestone M-45,-50,-60 Single-Shell Tank Corrective Action

I. Near-Term Deliverables:

- **M-45-55, Submit to Ecology for Review and Approval as an Agreement primary document a Phase 1 RFI Report**
Due: 1/31/08
Status: Complete. RFI in primary document revision process. DOE revised RFI, based on Ecology comments and resubmitted to Ecology on 10/07/09 with final rev 1 update provided to Ecology on April 22, 2010 (10-TPD-036).
- **M-45-56E, Complete Implementation of Agreed to Interim Measures**
Due: 07/31/09
Status: Complete. ORP and Ecology met on July 21, 2009 to discuss completed FY2008 interim measures and future FY2009 anticipated activities. July 2009, meeting minutes drafted and jointly reviewed with signature obtained at January 2010 PMM.
- **M-45-56F, Complete Implementation of Agreed to Interim Measures**
Due: 07/31/10
Status: Meeting scheduled with Ecology on April 6, 2010 to discuss S/SX characterization results for potential barrier placement. Meeting minutes of proposed future barrier placement reviewed and signed with Ecology on May 10, 2010 and will be submitted at May 2010 PMM. Ecology has established a tentative date of June 9, 2010 for M-45-56F annual meeting and ORP will provide a draft agenda.
- **M-45-58, Submit to Ecology for Review and Approval as an Agreement primary document, a phase 2 CMS Master Work Plan**
Due: 12/31/08
Status: Complete. Master Work Plan is in the Primary document revision process. DOE provided comment resolutions to Ecology on 10/13/09. Ecology provided clarification to comments by letter on December 10, 2009. ORP provided updated Master Work Plan, based on January 6, 2010 Ecology meeting on proposed comment responses on March 11, 2010. Ecology notified ORP on March 30, 2010 to extend their review an additional 30 days till May 14, 2010, and requested an additional 2 week extension on May 12, 2010.
- **M-45-60, Submit to Ecology for review and approval as an Agreement primary document DOE's Phase 2 RFI/CMS Work Plan and Sampling and Analysis Plan (SAP) for WMA C**
Due: 12/31/08
Status: Complete. ORP updated RFI/CMS Workplan and Sampling and Analysis Plan based on Ecology comments and resubmitted to Ecology, with approved

Ecology RCRs on November 2, 2009 (letter 09-TPD-118). Ecology approved the Work Plan on March 29, 2010 and requested meetings to discuss characterization schedule in WMA C. Followon meeting with Ecology occurred on April 26, 2010. Meeting minutes will be submitted at May 2010 PMM with attached characterization schedule.

- **M-45-61, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 RCRA Facility Investigation/Corrective Measures Study Report for WMA C**

Due: 12/31/10

Status: At Risk. See issues below. Proposed milestone M-045-61 (HFFACO Change Control Form M-45-09-01) will revise the due date for this document to 12-31-2014.

- **M-45-62, Submit to Ecology for review and approval as an Agreement primary document a Phase 2 Corrective Measures Implementation Work Plan for WMA C**

Due: 7/31/12

Status: At Risk. See issues below. Proposed milestone M-045-62 (HFFACO Change Control Form M-45-09-01) will revise the due date for this document to 6-30-2015.

II. Significant Accomplishments:

- T-Farm interim barrier monitoring continues; annual monitoring report issued.
- TY Interim Barrier Construction Continues.
 - Monitoring equipment for the TY barrier has been placed.
 - Evapo-Transpiration basin excavation underway, liner placement anticipated in May.
- Finished SGE data collection at UPR 86 site in C Farm.
- Continued direct push characterization in C Farm at location L2. Samples acquired at 220 ft depth. Continued Direct Push in support of interim barrier development in S-SX.
- Continued the joint process with Ecology and other regulatory agencies and stakeholders to define the inputs, approaches, assumptions and methods that will be used for development of a performance assessment for Waste Management Area C.
- Continued data analysis of well-to-well SGE Survey of A and AX Farms, in support of potential interim barriers.
- Initiated remedial technology assessments in support of a Corrective Measures Study for WMA C.

III. Significant Planned Actions in the Next Six Months:

- Continue direct push campaign in C Farm.
- Initiate data analysis of SGE data collection at UPR-86 site in C Farm.
- Complete analysis of well-to-well SGE survey of A and AX Farms to support evaluation of a potential future barrier site.
- Complete direct push sampling in S Farm based on findings of SGE analysis of SX data, to support evaluation of a potential future barrier site
- Complete construction of an interim surface barrier at TY farm.
- Initiate 3-D SGE survey of SE portion of S farm.
 - Continue remedial technology assessments in support of a Corrective Measures Study for WMA C.

IV. Issues

- The transmittal letter for M-45-50 (WMA C work plan and SAP) indicated that the scope of characterization activities identified in the plan could not be completed in time to support the currently scheduled dates for M-45-61 and M-45-62. The draft consent decree has been modified to include changes to the dates for these milestones.

Milestone M-45-00, Complete Closure of All Single-Shell Tank Farms SST Retrieval and Closure Program

I. Deliverables

- **M-45-00, Complete Closure of all Single-Shell Tank Farms**
Due: 9/30/24
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-00B, Complete Specified “Near-Term” SST Waste Retrieval and Interim Closure Activities, to Result in the Retrieval of all Tank Wastes in WMA-C SSTs Pursuant to the Agreement Criteria in Milestone M-45-00**
Due: 9/30/06 (Or as otherwise indicated within the descriptive text of this milestone.)
Status: Missed.
 - Completion of four limits of technology retrieval demonstrations:
 - Saltcake dissolution (S-112): Completed (M-45-03C).
 - Modified sluicing (C-106): Completed.
 - Vacuum retrieval (C-200s): Completed; C-203 field retrieval operations completed on March 24, 2005; C-202 retrieval completed on August 11, 2005; C-201 retrieval completed on March 23, 2006; C-204 retrieval completed on December 11, 2006.
 - Mobile retrieval (C-101, C-105, C-110 or C-111): Not completed. C-101 start of retrieval is currently projected for FY 2011. (Note: C-110 retrieval commenced using modified sluicing in compliance with a TWRWP approved by Ecology on 7/3/08. C-111 will have retrieval performed using modified sluicing in compliance with a TWRWP submitted to Ecology on 5/28/09.)
 - Implementation of full-scale leak detection monitoring and mitigation (LDMM) technologies for the first three 100-series tank retrievals following Tank S-112:
 - Tank S-102: High Resolution Resistivity System (HRR) installed; supporting retrieval operations.
 - Tank C-103: HRR demonstration complete.
 - Tank C-108: HRR installed; supporting retrieval operations.
 - Completed HRR injection tests at S-102.
 - Submitted HRR evaluation report and recommendation for further deployment.

- Submittal of Tank Waste Retrieval Work Plans (TWRWP):
 - Tanks C-201, C-202, C-203, and C-204: Completed on April 8, 2004.
 - Two (2) 100-series tanks by July 31, 2004: Completed on July 29, 2004 (C-103 and C-109).
 - Four (4) 100-series tanks by 10/31/04: Completed on October 8, 2004 (C-102, C-104, C-107, C-108, and C-112).
 - Five (5) 100-series tanks by January 31, 2005: Completed on January 24, 2005 (C-101, C-105, C-110, and C-111).
- **M-45-00C, Initiate Negotiation of SST Waste Retrieval and Closure Activities and Associated Schedules (for the period February 2007 through August 2008)**
Due: 9/30/06
Status: Missed.
- **M-45-00D, Initiate Negotiation of the SST Waste Retrieval and Closure Activities (for the period September 2008 to September 2013)**
Due: 1/31/08
Status: Missed.
- **M-45-00D-A, Ecology and DOE Negotiations Shall Be Completed within 150 days.**
Due: 06/28/08
Status: Missed
- **M-45-00E, Initiate Negotiation of SST Waste Retrieval and Closure Activities for the Remainder of the SST Program**
Due: 10/31/12
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-00E-A, Ecology and DOE Negotiations Shall Be Completed within 120 Days.**
Due: 02/27/13
Status: To Be Missed
- **M-45-05, Retrieve Waste from all Remaining Single-Shell Tanks**
Due: 9/30/18
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T05, Initiate Tank Retrieval from Five Additional Single-Shell Tanks**
Due: 9/30/07
Status: Missed.

- **M-45-05-T06, Initiate Tank Retrieval from Five Additional Single-Shell Tanks**
Due: 9/30/08
Status: Missed.
- **M-45-05-T07, Initiate Tank Retrieval from Seven Additional Single-Shell Tanks**
Due: 9/30/09
Status: Missed
- **M-45-05-T08, Initiate Tank Retrieval from Eight Additional Single-Shell Tanks**
Due: 9/30/10
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T09, Initiate Tank Retrieval from Ten Additional Single-Shell Tanks**
Due: 9/30/11
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T10, Initiate Tank Retrieval from 12 Additional Single-Shell Tanks**
Due: 9/30/12
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T11, Initiate Tank Retrieval from 14 Additional Single-Shell Tanks**
Due: 9/30/13
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T12, Initiate Tank Retrieval from 17 Additional Single-Shell Tanks**
Due: 9/30/14
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T13, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**
Due: 9/30/15
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T14, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**
Due: 9/30/16
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-05-T15, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**
Due: 9/30/17
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-06, Complete Closure of all Single-Shell Tank Farms in Accordance with Approved Closure/Post Closure Plan(s)**
Due: 9/30/24
Status: To Be Missed (based on current DOE Baseline planning).

- **M-45-06-T03, Initiate Closure Actions on a WMA Basis**
Due: 3/31/12
Status: To Be Missed (based on current DOE Baseline planning).
- **M-45-06-T04, Complete Closure Actions on one WMA**
Due: 3/31/14
Status: To Be Missed (based on current DOE Baseline planning).

II. Significant Accomplishments

- Retrieved C-104 to ~75% complete.
- Continued stack extension design and procurement for POR008 and POR003 in C-Farm.
- Initiated design and procurement activities for AN-101 Supernatant pump replacement.
- Initiated design activities for installation of hydraulic arm in C-104.
- Continued design activities for C-112 sluicing system.
- Continued design and procurements for C-108 Hard Heel Retrieval System.
- Continued C-111 procurement and construction activities

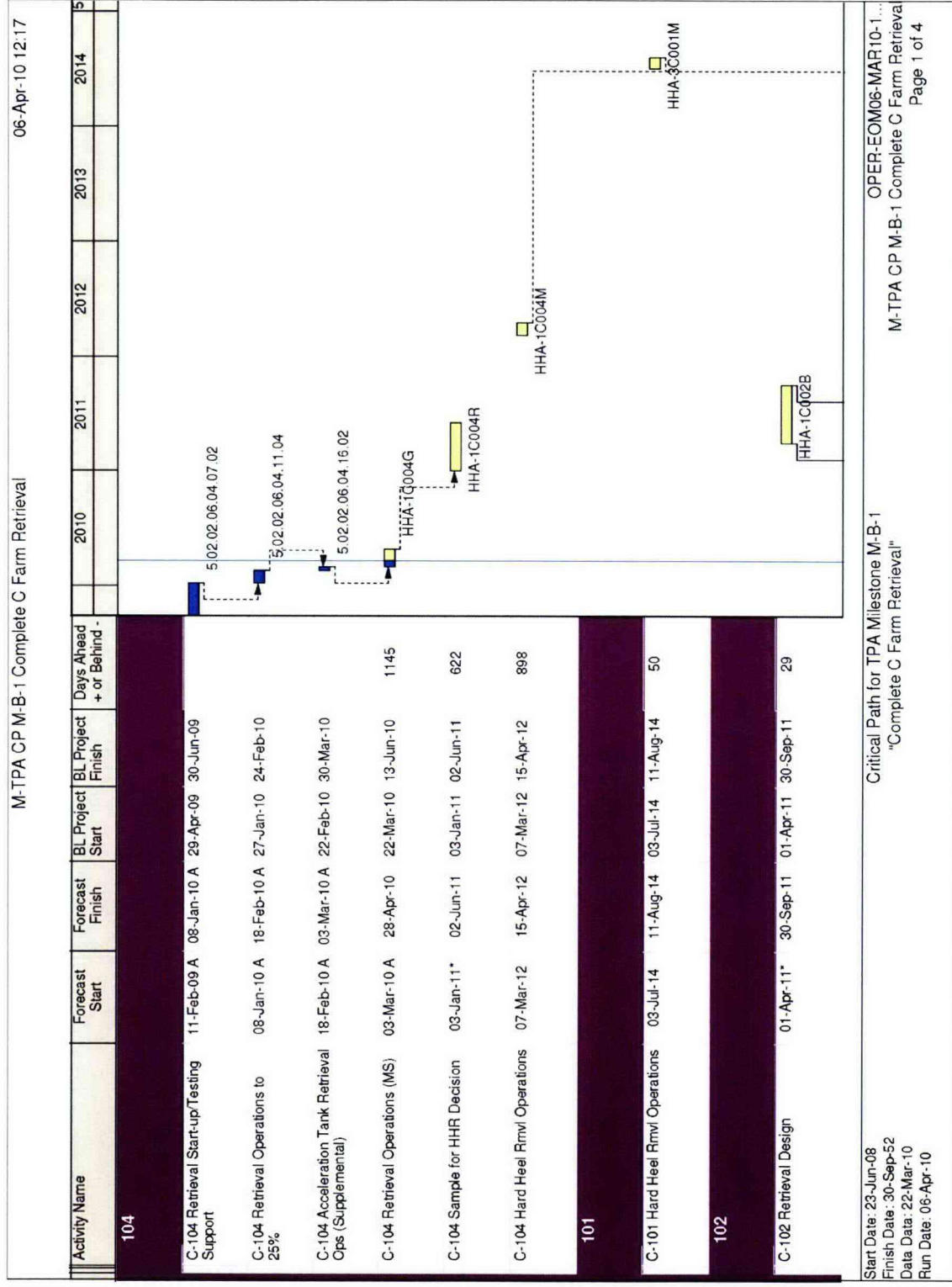
III. Significant Planned Activities in the Next Six Months

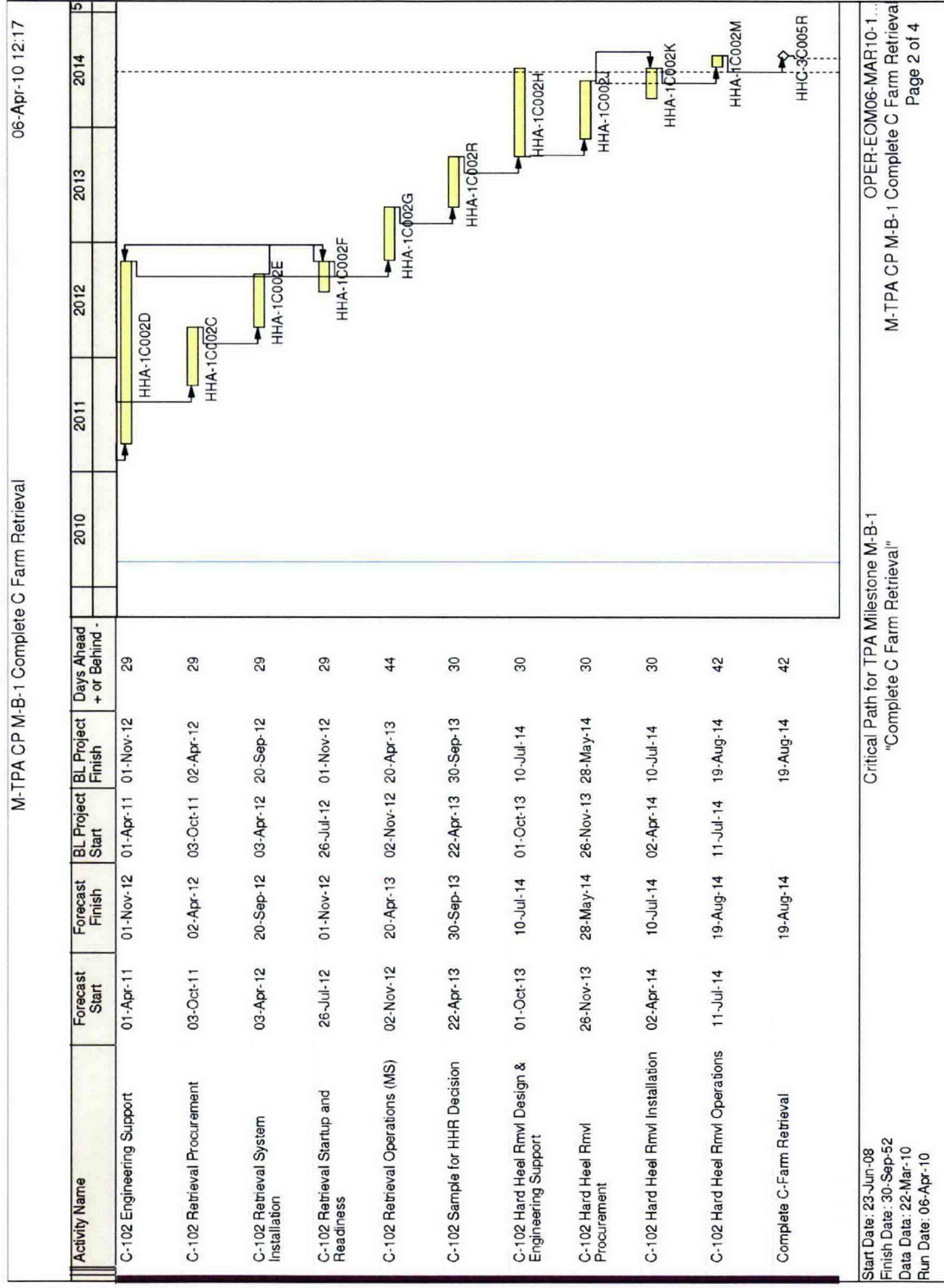
- Obtain C-109 and C-110 heel samples
- Complete construction of MARs with a sluicing end-effector for C-107 retrieval.
- Achieve 'interim stabilized' liquid levels on S-102. Issue interim stabilization documentation.
- Complete design for C-108 Hard Heel Retrieval system, and initiate construction along with start up of retrieval activities.
- Complete installation of new AN-101 Supernatant pump.
- Complete C-111 construction and initiate retrieval.
- Complete C-112 design and initiate procurement.
- Install hydraulic arm into C-104 to aid removal of obstruction underneath Slurry pump.

IV. Issues

- Milestones M-45-00B (retrieve all C Farm tanks), M-45-00C (initiate negotiations on SST retrievals for 2007-2008), and M-45-00D (initiate negotiations on SST retrievals for 2008-2013) were missed. TPA negotiations to address these and other milestones will be completed sometime after December 11, 2009, when Ecology and DOE complete their disposition of public comments on the newly proposed Consent Decree.

C-Farm Critical Path Retrieval Schedule and Life Cycle Baseline 2014 Compliance Schedule





M-TPA CP M-B-1 Complete C Farm Retrieval										06-Apr-10 12:17	
Activity Name	Forecast Start	Forecast Finish	BL Project Start	BL Project Finish	Days Ahead + or Behind -	2010	2011	2012	2013	2014	5
M-B-1, Required Finish for Complete C-Farm Retrieval	30-Sep-14*	30-Sep-14*	30-Sep-14	30-Sep-14	0						
105											
C-105 Hard Heel Rmvl Operations	26-Mar-14	04-May-14	26-Mar-14	04-May-14	149						
107											
C-107 Retrieval Operations (MRS)	25-May-11	06-Oct-11	25-May-11	06-Oct-11	614						
C-107 Hard Heel Rmvl Operations	19-Dec-12	27-Jan-13	19-Dec-12	27-Jan-13	611						
108											
C-108 Hard Heel Rmvl Operations	01-Oct-10	06-Dec-10	01-Oct-10	06-Dec-10	1393						
109											
C-109 Hard Heel Rmvl Operations	12-Nov-11	21-Dec-11	12-Nov-11	21-Dec-11	1014						
110											
Start Date: 23-Jun-08 Finish Date: 30-Sep-52 Data Date: 22-Mar-10 Run Date: 06-Apr-10											
Critical Path for TPA Milestone M-B-1 "Complete C Farm Retrieval"										OPER-EOM06-MAR10-1... M-TPA CP M-B-1 Complete C Farm Retrieval Page 3 of 4	

M-TPA CP M-B-1 Complete C Farm Retrieval										06-Apr-10 12:17				
Activity Name	Forecast Start	Forecast Finish	BL Project Start	BL Project Finish	Days Ahead + or Behind -	2010	2011	2012	2013	2014				
C-110 Hard Heel Rmvl Operations	13-Jul-11	21-Aug-11	13-Jul-11	21-Aug-11	1136									5
111														
C-111 Retrieval Operations (MS)	27-Jul-10	07-Sep-10	27-Jul-10	07-Sep-10	1007									
C-111 Hard Heel Rmvl Operations	13-Dec-12	21-Jan-13	13-Dec-12	21-Jan-13	617									
112														
C-112 Retrieval Operations (MS)	20-Sep-11	22-Nov-11	20-Sep-11	22-Nov-11	567									
C-112 Hard Heel Rmvl Operations	14-Mar-13	22-Apr-13	14-Mar-13	22-Apr-13	526									
Start Date: 23-Jun-08 Finish Date: 30-Sep-52 Data Date: 22-Mar-10 Run Date: 06-Apr-10										Critical Path for TPA Milestone M-B-1 "Complete C Farm Retrieval"				
										OPER-EOM06-MAR10-1... M-TPA CP M-B-1 Complete C Farm Retrieval Page 4 of 4				

SST RETRIEVAL SEQUENCE DOCUMENT

I. Deliverables

- **M-45-02N, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (see text of M-45-02N for further details)**
Due: 3/1/08 (Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)
Status: Complete.
- **M-45-02N-A, Embedded Milestone; Within 60 days of receiving the DST Space Evaluation Document, the Three Parties Shall meet to Establish New Milestones, If Required, for Acquisition of Additional Tanks**
Due: 06/02/08
Status: Complete. On May 15, 2008, Ecology transmitted comments on the M45-02N deliverable. On July 23, 2008, ORP transmitted letter 08-TF-049 to Ecology with a plan for responding to Ecology comments on and updating the Retrieval Sequence Document (RPP-21216). The revised document was submitted to Ecology on September 12, 2008, by letter 08-TF-062. Ecology approved the document on January 22, 2009, by letter 0900343.
- **M-45-02O, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (see text of M-45-02M for further details)**
Due: 3/1/10 (Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)
Status: In Abeyance per AIP, see issues below.
- **M-45-02O-A, 3 Parties Shall Meet To Establish New Milestones Within 60 Days**
Due: 04/30/10
Status: In Abeyance per AIP
- **M-45-02P, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (see text of M-45-02M for further details)**
Due: 3/1/12 (Biennially thereafter. Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)
Status: In negotiation. See discussion below under "Issues".

- **M-45-02P-A, Embedded Milestone; Within 60 days of receiving the DST Space Evaluation Document, the Three Parties Shall meet to Establish New Milestones, If Required, for Acquisition of Additional Tanks**
Due: 4/30/12
Status: In negotiation. See discussion below under "Issues".
- **M-45-02Q, Submit Biennial Update to SST Retrieval Sequence Document**
Due: 03/01/14
Status: In negotiation. See discussion below under "Issues".
- **M-45-02Q-A, 3 Parties Shall Meet to Establish New Milestones Within 60 Days**
Due: 04/30/14
Status: In negotiation. See discussion below under "Issues".
- **M-045-02R, Submit Biennial Update to SST Retrieval Sequence Document**
Due: 03/01/16
Status: In negotiation. See discussion below under "Issues".
- **M-045-02R-A, 3 Parties Shall Meet to Establish New Milestones Within 60 Days**
Due: 04/30/16
Status: In negotiation. See discussion below under "Issues".
- **M-45-02S, Submit Biennial Update to SST Retrieval Sequence Document**
Due: 03/01/18
Status: In negotiation. See discussion below under "Issues".
- **M-45-02S-A, 3 Parties Shall Meet to Establish New Milestones Within 60 Days**
Due: 04/30/18
Status: In negotiation. See discussion below under "Issues".

II. Issues

The proposed TPA milestone, M-62-40, supersedes and provides an expanded set of information and data when compared to the requirements of the M-45-02 series milestones. To develop and submit the M-45-02O deliverable requires the same resources that are required to develop and submit the M-62-40 deliverable. In order to meet the proposed M-62-40 milestone due date, resources must be allocated to the development of the deliverable at this time, which would preclude the development of the M45-02O deliverable. On January 11, 2010, Ecology and ORP signed an Agreement In Principle stating the parties agree to hold milestone M-45-02O in abeyance pending disposition of TPA Change Form M-45-09-01(part of the Consent Decree package released for public comment on October 1, 2009). The M-45-09-01 Change Form proposes the creation of new milestone M-62-40.

TANK RETRIEVALS WITH INDIVIDUAL MILESTONES

Tank 241-C-106

I. Deliverables

- **M-45-05M-T01, Submit C-106 Waste Retrieval Results, Analysis of Residual Waste(s), and (if appropriate) Request for Exception to the Criteria Pursuant to Agreement Appendix H**
Due: 2/27/04
Status: Complete.

II. Significant Accomplishments

- None.

III. Significant Planned Activities (PA) in the Next Six Months

- Continue U.S. Nuclear Regulatory Commission (NRC) review of the C-106 exception request. A Request for Additional Information (RAI) was received from the NRC in February 2009. (It has been discussed with the NRC that much of the additional information requested is dependent upon development of C-Farm residual waste PA and, therefore, cannot be provided until the PA is published.)
- Continue PA workshops with Ecology, EPA, NRC, and DOE HQ focused on residual waste in C Farm tanks and pipelines following retrieval.

IV. Issues

- C-106 Closure Plan approval and SST radiological Categorical Notice of Construction (NOC) Phase 3 (closure) and a toxics categorical NOC application are pending completion of the Tank Closure and Waste Management Environmental Impact Statement (EIS) and associated Record of Decision (ROD); forecast completion for the final EIS ROD is in the Spring or Summer of 2011.

Tank 241-S-102

I. Deliverables

- **M-45-05A, Complete Waste Retrieval from Tank S-102**
Due: 3/31/07
Status: Missed. As a result of equipment failure on March 14, 2007, retrieval operations were suspended at Tank S-102 with retrieval approximately 79% complete.
- **M-45-15, Interim Completion of Tank S-102 SST Waste Retrieval and Closure Demonstration Project**

Due: 6/30/11

Status: At Risk. See discussion below under "Issues". Change Request M-45-07-01 approved by DOE and Ecology on December 4, 2007.

- **M-45-15A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I**

Due: 6/30/11

Status: At risk. See discussion below under "Issues".

- **M-45-15B, Embedded Milestone, Remaining Wastes have been adequately Characterized, and a Risk Assessment has been completed for residuals that remain in the tank**

Due: 6/30/11

Status: At risk. See discussion below under "Issues".

- **M-45-15C, Embedded Milestone, An update to the S-102 Component Closure Activity Plan has been submitted by DOE**

Due: 6/30/11

Status: At risk. See discussion below under "Issues".

- **M-45-15D, Embedded Milestone, if appropriate, DOE has requested an exception to waste retrieval criteria pursuant to Agreement Appendix H**

Due: 6/30/11

Status: At risk.

II. Significant Accomplishments

- None

III. Significant Planned Activities in the Next Six Months

- None.

IV. Issues

- Retrieval of Tank 241-S-102 was not completed by TPA milestone date of March 31, 2007, due to pump failure. It is technically imprudent to attempt to accelerate retrieval of S-102, at this time, because of the rheological nature of the waste.

- In a letter dated August 15, 2006, Ecology stated that submittal of Component Closure Activity Plans, for retrieved tanks, should continue to be suspended until June 30, 2009, or within 120 days after the Final Tank Closure and Waste Management Environmental Impact Statement (TC&WM EIS) Record Of Decision (ROD) is issued, whichever is earlier. In a letter dated November 12, 2009, Ecology extended its suspension until 180 days after the issuance of the final TC&WM EIS. It is anticipated that the final TC&WM EIS will not be issued until the Spring or Summer of 2011. Submittal of the Closure Plan could not occur, then, until several months after the M-45-15 milestone is due.

Tank 241-S-112

I. Deliverables

- **M-45-03C, Complete Full-Scale Saltcake Waste Retrieval Technology Demonstration at Single-Shell Tank S-112**
Due: 6/30/05
Status: Complete.
- **M-45-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure Demonstration Project**
Due: 6/30/11
Status: At risk. See discussion below under "Issues". Change Request M-45-07-01 approved by DOE and Ecology on December 4, 2007.
- **M-45-13A, Embedded Milestone, Submit a Retrieval Data Report Pursuant to Agreement Appendix I**
Due: 12/31/07
Status: Completed (ORP letter, 07-TPD-066, dated December 21, 2007). Added by Change Request M-45-07-01 approved by DOE and Ecology on December 4, 2007.
- **M-45-13B, Embedded Milestone, Remaining Wastes have been adequately Characterized, and a Risk Assessment has been completed for residuals that remain in the tank**
Due: 12/31/07
Status: Completed (ORP letter, 07-TPD-066, dated December 21, 2007). Added by Change Request M-45-07-01 approved by DOE and Ecology on December 4, 2007.
- **M-45-13C, Embedded Milestone, An update to the S-112 Component Closure Activity Plan has been submitted by DOE**
Due: 6/30/11
Status: At risk. See discussion below under "Issues".

- **M-45-13D, Embedded Milestone, if appropriate, DOE has requested an exception to waste retrieval criteria pursuant to Agreement Appendix H**
Due: 6/30/11
Status: At risk. See discussion below under "Issues".

II. Significant Accomplishments

- Ecology letter of August 28, 2008, concurred with ORP that retrieval of Tank S-112 is complete.

III. Significant Planned Activities in the Next Six Months

- None.

IV. Issues

In a letter dated August 15, 2006, Ecology stated that submittal of Component Closure Activity Plans, for retrieved tanks, should continue to be suspended until June 30, 2009, or within 120 days after the Final Tank Closure and Waste Management Environmental Impact Statement (TC&WM EIS) Record Of Decision (ROD) is issued, whichever is earlier. In a letter dated November 12, 2009, Ecology extended its suspension until 180 days after the issuance of the final TC&WM EIS. It is anticipated that the final TC&WM EIS will not be issued until the Spring or Summer of 2011. Submittal of the Closure Plan could not occur, then, until several months after the M-45-15 milestone is due.

Interim Stabilization Consent Decree

I. Near-Term Deliverables:

D-001-00, Complete Interim Stabilization of all 29 SSTs

Due: 09/30/04

Status: Completed on March 31, 2004, with discontinuation of pumping in U-108 and subsequent consultation with Ecology staff. Interim stabilization of S-102 and S-112 is held in abeyance by third amendment to the Consent Decree.

ORP's obligation to interim stabilize S-112 was satisfied upon completion of retrieval operations. Retrieval of S-102 has been impacted by the spill at this tank. A review of the January 25, 2010, video of the tank has shown approximately 2,400 gallons of supernatant liquid remaining. This is below the criteria for interim stabilization of less than 5000 gallons supernatant liquid.

II. Significant Accomplishments:

Quarterly Interim Stabilization Report submitted to Ecology on 4/30/2010 by ORP letter 10-TPD-040.

III. Significant Planned Actions in the Next 6 Months:

None.

IV. Issues

Tank S-102 retrieval not completed by milestone M-45-05A date of March 31, 2007.

In Tank Characterization and Summary

For the period from April 1 – April 30, 2010:

I. Accomplishments:

- Completed revision 16 of HNF-SD-WM-DQO-001, *Data Quality Objectives for Tank Farms Waste Compatibility Program*, April 6, 2010
- Completed revision 0 of RPP-PLAN-44057, *Data Quality Objectives to Support Strategic Planning* on April 8, 2010

II. Planned Action within the next Six Months:

- Tank Sampling
 - Tank 241-A-350 compatibility and closure scheduled for July 2010
 - Tank 241-AP-107 evaporator grab samples scheduled for May 2010.
 - Tank 241-AN-101 pre C-111 retrieval scheduled for June 2010.
 - Tank 241-AN-103 corrosion mitigation liquid grabs scheduled for October 2010.
 - Tank 241-AN-104 corrosion mitigation liquid grabs scheduled for October 2010.
 - Tank 241-AN-107 corrosion mitigation liquid grabs scheduled for June 2010.
 - Tank 241-C-110 off riser sampling scheduled for July 2010.
 - Tank 241-C-108 off riser sampling scheduled for September 2010.
- BBI Updates
 - Seven tank updates are planned for FY10 Quarter 3. An additional three tanks may be added. Five of the seven updates have been started.
- Data Quality Objectives (DQO)
 - Complete revision 11 of the Chemistry Control DQO in June 2010.
 - Complete revision 17 of the Compatibility DQO in June 2010.
 - Complete revision 0 of A-350 retrieval, transfer, and closure DQO in May 2010.
 - Complete revision 0 of C-301 retrieval, transfer, and component closure DQO in June 2010.

III. Issues:

- None.

Milestone M-47-00, Complete Work Necessary to Support Acquisition and Phase I Operations of Hanford Site High-Level Radioactive Waste Treatment, Storage, and Disposal Facilities

I. Near-Term Deliverables:

- **M-47-03A, Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial high-level waste feed tank**
Due: 03/31/09
Status: Missed.
- **M-47-06, Complete negotiation of additional agreement requirements (milestones, target dates, and associated language) governing work necessary to support completion of treatment complex Phase I operations by 2018**
Due: 06/30/10
Status: Negotiations are not yet underway.

II. Significant Accomplishments:

- None.

III. Significant Planned Actions in the Next Six Months:

- None.

IV. Near-term Actions Needed by DOE or Ecology:

- None.

V. Issues:

- Nothing to report.

242-A Evaporator Status (previously reported under Milestone M-48, which has been closed out)

242-A Campaign strategy:

- FY10. 1 campaign using AW-106 as the feed and slurry tank. This waste requires 2 passes to achieve forecast waste volume reduction.
- FY11. 2 campaigns with feed from AP-107 and AZ-102. Slurry tanks will be AP-104/AP-107.
- FY12. 1 campaign with feed from AY-101 and slurry to AP-107. This campaign replaces a Cold Run in the baseline.

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY09	09-01	AP-101/ AP-105	AP-104	Entered OPERATION MODE on 3/17/09 and returned to SHUTDOWN MODE on 6/25/09. Campaign 09-01/09-02
FY09	09-02	AP-101/ AP-105	AP-104/ AP-101	processed approximately 2.1mgal of DST waste achieving 948kgals (45%) waste volume reduction.
FY10	10-01	AW-106	AW-106	Planned waste processing start April2010.
FY11	11-01	AP-107	AP-104	Planned start March 2011. Campaigns 11-01 and 11-02 to be performed back-to-back
FY11	11-02	AZ-102	AP-104/ AP-107	
FY12	12-01	AY-101	AP-017	Planned start March 2012.

Milestone M-90-00, Complete Acquisition of New Facilities, Modifications of Existing facilities, and/or Modifications of Planned Facilities, as Necessary for Storage of Hanford Site Immobilized High Level Waste (IHLW), Immobilized Low Activity Waste (ILAW), and Disposal of ILAW, and M-20-00, Submit Part B Permit Applications

I. Near-Term Deliverables:

- **M-90-10, Ready to Accept Placement of ILAW Waste in ILAW Disposal Facility**
Due: 8/31/08
Status: Complete.
- **M-90-11, Complete Canister Storage Facility Construction**
Due: 8/31/10
Status: To Be Missed. To be renegotiated to align with WTP schedule.

II. Significant Accomplishments:

- None to report.

III. Significant Planned Actions in the Next Six Months:

- None to report.

IV. Issues

- None to report.

Milestone M-62-00, Complete Pretreatment Processing and Vitrification of Hanford High-Level (HLW) and Low-Activity (LAW) Tank Wastes

I. Near-Term Deliverables:

- **M-62-00, Complete Pretreatment Processing and Vitrification of Hanford High-Level (HLW) and Low-Activity (LAW) Tank Wastes**
Due: 12/31/2028
Status: To Be Missed.
- **M-62-00A, Complete WTP Pretreatment Processing and Vitrification of Hanford HLW and LAW Tank Wastes**
Due: 02/28/2018
Status: To Be Missed.
- **M-62-01R, Submit Semi-Annual Project Compliance Report**
Due: 12/31/2009
Status: Complete.
- **M-62-01S, Submit Semi-Annual Project Compliance Report**
Due: 07/31/2009
Status: Complete.
- **M-62-01T, Submit Semi-Annual Project Compliance Report**
Due: 12/31/2010
Status: Complete.
- **M-62-01U, Submit Semi-Annual Project Compliance Report**
Due: 07/31/2010
Status:
- **M-62-07B, Complete Assembly of Low Activity Waste Vitrification Facility Melter #1 So That It Is Ready for Transport and Installation in the LAW Vitrification Building (BNI Baseline Schedule Activity 4DL321A200 as Part of DOE Contract No. DEAC27-01RV14136), and Complete Schedule Activity ID 4DH46102A2 – Move #1 Melter into the High Level Waste Vitrification Facility**
Due: 12/31/2007
Status: Missed.

- **M-62-08, Submittal of Hanford Tank Waste Supplement Treatment Technologies Report, Draft Hanford Tank Waste Treatment Baseline and Draft Negotiations Agreement in Principle**

Due: 06/30/2006

Status: Missed.

- **M-62-09, Start Cold Commissioning – Waste Treatment Plant**

Due: 02/28/2009

Status: To Be Missed (based on current DOE Baseline planning).

- **M-62-10, Complete Hot Commissioning – Waste Treatment Plant**

Due: 01/31/2011

Status: To Be Missed (based on current DOE Baseline planning).

- **M-62-11, Submit a Final Hanford Tank Waste Treatment Baseline**

Due: 06/30/2007

Status: Missed.

II. Significant Accomplishments:

- None to report.

III. Significant Planned Actions in the Next Six Months:

- None to report.

IV. Issues:

- None

Hanford Waste Treatment and Immobilization Plant (WTP) Project

There are about 3,250 FTE equivalent contractor [Bechtel National Inc. (BNI)] and subcontractor personnel working on the WTP Project, including 966 craft, 418 non-manual, and about 285 subcontractor personnel FTE equivalents working at the WTP construction site (all facilities). Overall project percent complete through March 2010 is 54%, design and engineering is 79% complete, and construction is 50% complete.

The overall WTP Project schedule variance (SV) was positive in March at \$2.4M, the cost variance (CV) was a negative (\$1.6M). The negative CV came from Engineering, Plant Equipment, and Construction.

Following is the status through the end of April for current project issues:

Material at Risk (MAR)

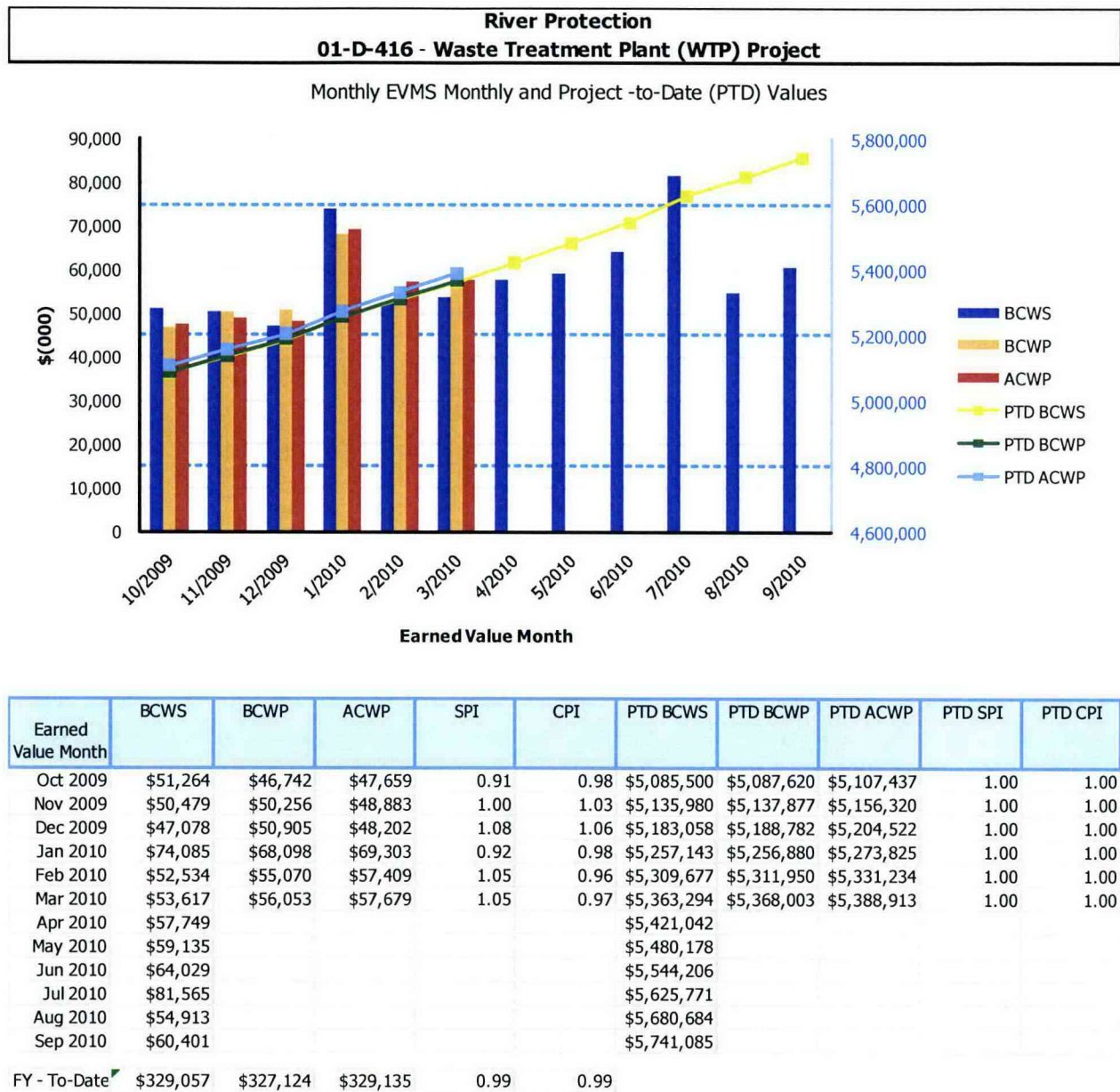
The MAR/HPAV Integrated Change Package (ICP) Safety Evaluation Report (SER) was approved by the ORP Manager on October 31, 2009, with four Conditions of Acceptance (COA). The four COAs address the following subject areas: (1) Hydrogen in Piping and Ancillary Vessels (HPAV) piping design criteria (Closed in February 2010); (2) BNI to develop a plan and schedule for resolving technical comments on six primary reports referenced in the SER (Completed in December 2009); (3) Develop a plan and schedule for resolving the uncertainties identified in PDSA Addendum Section 2.7 (This COA will not be closed until the uncertainties are adequately resolved and approved by ORP; and (4) BNI will recommend application of seismic criteria for piping performing a safety significant confinement function (Closed in March 2010). The COAs are closed as work is completed, with a completion of all COAs estimated in August 2010. COAs 1 and 4 have been closed. BNI identified six activities for completing the action plan for COA 2 and has completed three of the six through April 19, 2010. BNI identified nine activities for completing the action plan for COA 3 and has completed six of the nine. The ICP approval enables elimination of many active process controls located outside of the hot cell and reclassification of several Safety Class controls to Safety Significant, while retaining a core set of Safety Class controls sufficient to ensure safety for the public and the workers. ORP considers these changes essential to ensuring a more

reliable Pretreatment Facility that is critical to fulfilling the tank waste treatment mission, the cornerstone to the cleanup of tank waste at Hanford. The schedule for completion of the COAs aligns with critical design and procurement need dates, so overall construction schedules are not affected.

Hydrogen in Piping and Ancillary Vessels (HPAV)

Based on discussions between DOE, BNI and the Defense Nuclear Facility Safety Board (DNFSB), BNI has chartered an independent review team to address Hydrogen in Piping and Ancillary Vessels (HPAV) hazard at the Pretreatment Facility (PTF). The HPAV Review Team (HIRT) will review the design criteria (approved by ORP in February 2010) and proposed implementation methods for evaluating postulated hydrogen events (deflagration and detonation) in piping and ancillary vessels in the PTF. The review is to provide added assurance that the criteria and methods provide a technically defensible, conservative approach to ensure the safety and reliability of the PTF design. An informational meeting of the HIRT was held in Richland, Washington from April 13-16, 2010. The HIRT report documenting their review is expected in July 2010.

WTP – Fiscal Year To-Date Performance



Pretreatment (PT) Facility – April 2010 Accomplishments (Mar 10 EVM Data)

The PT Facility will separate radioactive tank waste into high-level waste (HLW) and low-activity waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization. Overall facility percent complete is 50%, engineering/design is 78% complete, and construction is 30% complete.

Overall construction has been performing well, especially in the area of concrete and steel installation. Construction installations for the month of April include: 469 cubic yards (CY) of concrete, 150 tons of rebar, 10,000 lbs of embeds and 154 tons of structural steel. There were four concrete placements – two walls and two slabs – during the month of April, and concrete placement remains ahead of the schedule. One wall placement is left to complete the exterior portion of the 4th lift walls.

Installation of HVAC remains behind schedule, but supports the recovery plan developed to meet the baseline schedule by April 2011. Rebar installation continues to support additional slab placements at the 77-ft elevation, and efforts are underway to support the preparation for 5th lift wall installations. Structural steel installations continue on the south side of the facility. Installation of piping and liner plates, welding of vessels in Black Cells; installation of HVAC ductwork, fabrication of rebar curtains, application of Special Protective coatings, and installation of hotcell crane rail girder are on-going.

3,500 ft of piping isometric drawings have been issued the month exceeding the cumulative baseline. C&I issued datasheets for a total of 313 components. CS&A issued calculations and structural steel drawings to support the release of the PTF stack and HVAC flue supports. Electrical engineering issued the electrical embeds that support the acceleration of 77' to 98' (5th lift) wall placements. Mechanical systems completed the Single Failure Analysis of the PT Control Building Chilled Water System. Mechanical Handling completed the review of the Equipment Arrangement Drawings and Plant Design completed the jumper frame drawings and calculations for the Hot Cell Area 24.

Accelerated work continues in the areas of 5th lift wall placements and the installation of piping in various Black Cells. Both of these advancements will reduce future schedule risks, and allow acceleration of some of the future activities. Piping install rates have shown significant improvement over the last month.

Re-analysis and fabrication modifications of various numbers of vessels due to seismic and other dynamic load increases are ongoing. BNI is proceeding with the development of engineering deliverables for the vessel alterations package. Design and fabrication of vessels UFP-1A and 1B, and HLP-27A and 27B, are the current critical path activities for PT. Evaluations of the vendor's schedules are being performed to identify areas where schedule improvements can be achieved. Furthermore, some of the vessel analyses are being contracted out to mitigate the contractor resource constraints and expedite fabrication. A number of complex jumper and frame designs have been completed; vendor bids for the first jumper frame have been received and the quotes are significantly higher than budget. BNI performed an independent cost estimate, and the resulting value was similar in pricing to the lower vendor bids. The bids are higher due to the extreme complexity of the jumper frames and the level of detail available during the scoping for the original budget.

Two key documents have been issued to support piping evaluation for HPAV. The first document is the QRA report that outlines the approach taken for the Quantitative Risk Assessment and the second document is the engineering report supporting the HPAV design criteria. An Independent Review of the HPAV implementation of the approach and design criteria has been initiated to. The team is composed of independent experts to provide reasonable assurance that this approach will not have adverse effects on WTP. The HPAV Independent Review is scheduled to be completed by June 30, 2010.

Resolution of the mixing issue (M3) identified by the External Flowsheet Review Team continues. M3 testing with modified PJMs to increase mixing power, improve power distribution, and adjusted solids loading was completed in April 2010. Based on preliminary results, it appears that 9 vessels may require design modifications. Based on the information learned through testing, BNI and ORP decided to re-assess mixing in all 38 PJM mixed vessels. The vessel assessments for 23 of 38 vessels have been closed. The remaining 15 vessel assessments are planned to be completed in early June 2010. To provide defense-in-depth that the WTP vessels can be operated successfully for the life of WTP, BNI plans to implement changes to support inspection and heel removal capability in 10 vessels that handle the highest concentration of solids in the WTP Pretreatment facility.

Resolution of major technical issues is inter-related and proper coordination of engineering efforts is needed to minimize the amount of document rework resulting from implementation of

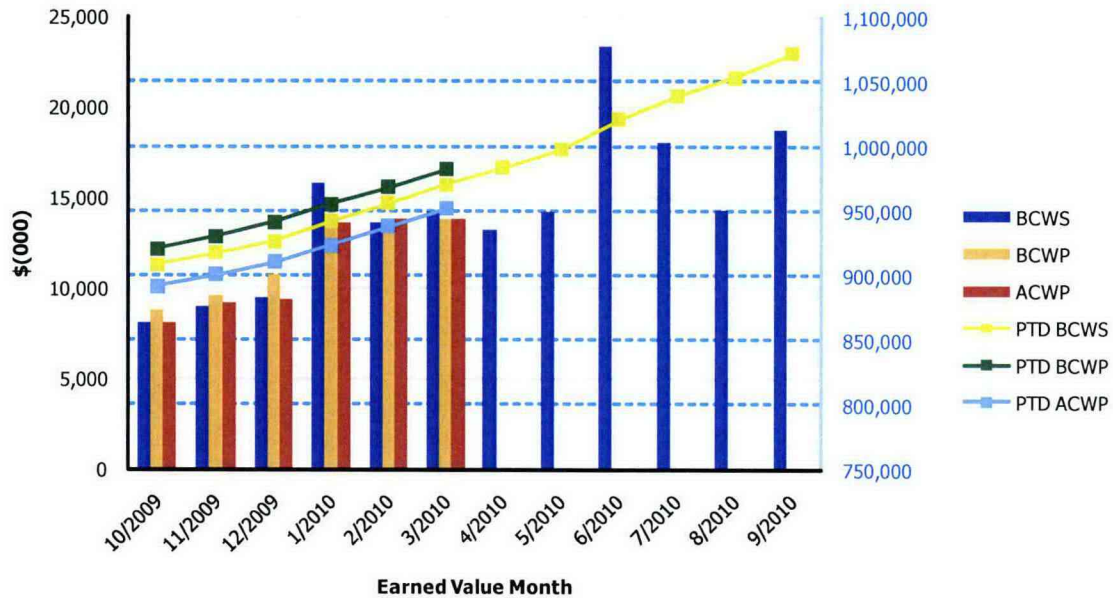
technical solutions. The full impact of implementation will not be known until the integrated plans for all currently known technical issues are developed. The completion of these plans is forecasted to be complete in September 2010.

Upcoming significant planned accomplishments for May include completion of the filter cave coupled analysis, issuing a Material Requisition for Flex Pneumatic Connectors, fabrication of the Pulse Jet Ventilation Demisters, and placements of two slabs and two walls.

There are no near-term Consent Decree Milestones.

River Protection
01-D-16E - Pretreatment Facility

Facility Specific (unallocated) Monthly and Project-to-Date (PTD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	PTD BCWS	PTD BCWP	PTD ACWP	PTD SPI	PTD CPI
Oct 2009	\$8,121	\$8,762	\$8,153	1.08	1.07	\$907,724	\$920,488	\$891,343	1.01	1.03
Nov 2009	\$8,991	\$9,625	\$9,213	1.07	1.04	\$916,715	\$930,112	\$900,556	1.01	1.03
Dec 2009	\$9,493	\$10,767	\$9,366	1.13	1.15	\$926,208	\$940,879	\$909,922	1.02	1.03
Jan 2010	\$15,776	\$13,724	\$13,599	0.87	1.01	\$941,984	\$954,603	\$923,521	1.01	1.03
Feb 2010	\$13,597	\$13,349	\$13,852	0.98	0.96	\$955,581	\$967,952	\$937,373	1.01	1.03
Mar 2010	\$14,245	\$13,801	\$13,823	0.97	1.00	\$969,826	\$981,753	\$951,196	1.01	1.03
Apr 2010	\$13,267					\$983,093				
May 2010	\$14,173					\$997,266				
Jun 2010	\$23,377					\$1,020,643				
Jul 2010	\$18,104					\$1,038,747				
Aug 2010	\$14,301					\$1,053,049				
Sep 2010	\$18,764					\$1,071,812				
FY- To-Date	\$70,223	\$70,028	\$68,006	1.00	1.03					

High-Level Waste (HLW) Facility – April 2010 Accomplishments (Mar 10 EVM Data)

The HLW Facility will receive the high-level waste fraction from the Pretreatment (PT) Facility. The concentrate is sampled and analyzed to determine the optimum blend of glass formers to add to the waste that will produce a vitrified waste form that is compliant with disposal requirements and will also meet the required production rate. The blended slurry is converted into molten glass in one of the two HLW melters and then poured into cylindrical stainless steel canisters for cooling. The canisters are sealed and moved to a decontamination cell where any surface contamination is removed prior to shipment to interim or final storage. HLW engineering design is 84% complete and construction is 26% complete. The overall facility is 51% complete.

The contractor continues to maintain the schedule for the HLW Facility/WTP Project critical path to complete build-out of the Filter Cave. The Filter Cave contains the HLW Facility's primary ventilation (C5V) HEPA filtration units, as well as the pulse jet vent, and melter off-gas HEPA filter systems. These HEPA filters will be replaced remotely via a crane operated power manipulator. The secondary C5V HEPA filters are being converted to "safe-change" units in order to safely maintain facility ventilation in case of a Filter Cave crane failure or fire. BNI engineering completed the support steel design for the HEPA housings in mid-April. The seismic analysis for the HEPA Housings is continuing at the vendor's subcontractor. The vendor for the remote operated dampers has completed their preliminary designs and will begin their seismic analysis when the bounding nozzle loads have been established from the HEPA Housing analysis. BNI civil and structural engineers are continuing the coupled analysis of the large bore ducting/piping and are scheduled to complete in early June.

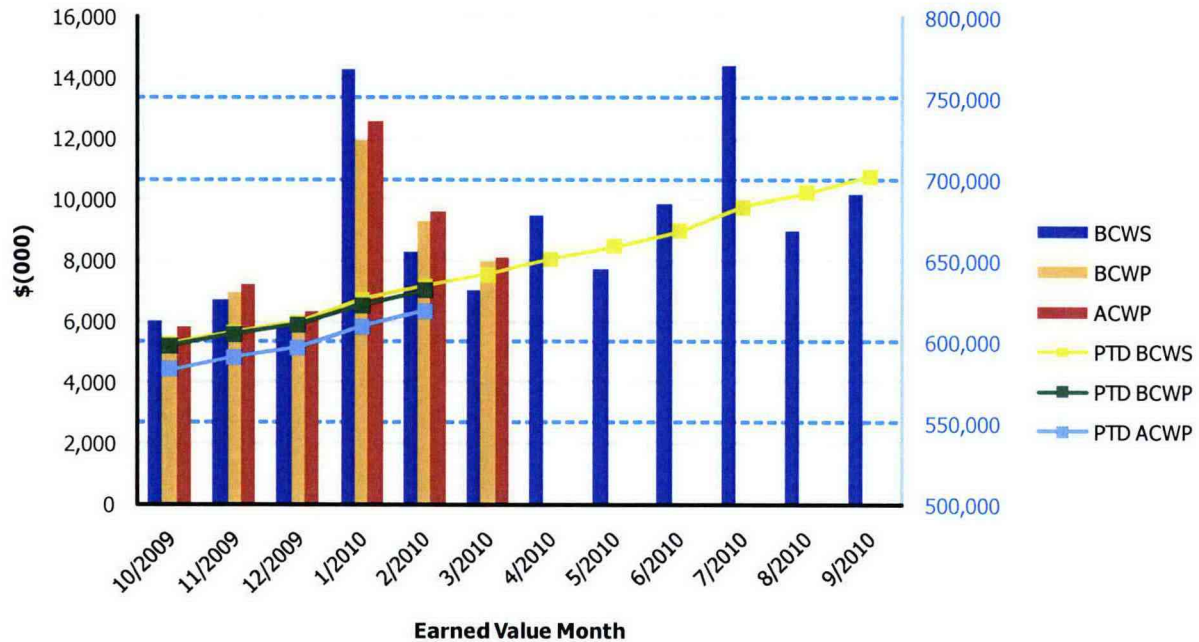
On April 22, 2010 construction completed the major installation of the first of six shield doors (three for each melter cave). The 50-ton steel C5 shield door, HMM-DOOR-00010 for Melter Cave #1, is 15-feet tall x 18-feet wide and eight inches thick. The C5 shield door is closest to the melter and provides the primary protection from radiation for operators as well as containment of contamination from the Melter Cave. Precision optics were needed to set the door within extremely tight tolerances - down to five-thousandths of an inch. The shield door's positioning was verified using laser tracking technology initially developed for the aerospace industry. The matching C5 shield door for Melter Cave #2, HMM-DOOR-00015, was delivered to the site in April and is currently staged near the facility for installation later this year.

In April, construction completed the placement of five walls and one slab for a total of 1089 cubic yards (CY) of concrete. The last remaining elevation +14' concrete slab (2020A) was placed on March 30, 2010. In May, construction plans to complete six more concrete placements (three slabs and three walls) for a total of 531 CY. One of the placements, slab 3001 at the northern end of the annex, is the first concrete placement at the +37' elevation. This placement is scheduled to be completed in early May. Other construction activities in the HLW Facility include:

- At the +37' elevation, workers continued installing slab decking, rebar, embeds, and forms in the annex area.
- At the +14' elevation, iron workers continued to install rebar and embeds. Carpenters continued working on forms and shoring at multiple locations. Crews continued installing embeds, pipe sleeves, and hangers.
- At the +0' elevation, pipefitters continued installing piping and supports. Painters applied coatings in the annex area. Iron workers installed steel and rebar for the canister export truck bay exterior walls. Millwrights completed the installation of the C5 shield door lower rails and the door guide/header in Melter Cave #1 (for HMH-DOOR-00010). Crews continued installing fire protection piping in the west corridor near the annex and in the southwest corridors.
- At the -21' elevation, crews continued installing piping for the -903 and -904 condensate collection vessels and duct near the silver mordenite columns. Crews began installing HVAC supports/ductwork and firewater piping in the central corridors. Subcontractors continued installing liner plate in the Wet Cell and Rinse Tunnel.

River Protection
01-D-16D - High-Level Waste Facility

Facility Specific (unallocated) Monthly and Project-to-Date (PTD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	PTD BCWS	PTD BCWP	PTD ACWP	PTD SPI	PTD CPI
Oct 2009	\$6,029	\$5,415	\$5,799	0.90	0.93	\$599,008	\$597,499	\$583,042	1.00	1.02
Nov 2009	\$6,675	\$6,939	\$7,190	1.04	0.97	\$605,682	\$604,438	\$590,232	1.00	1.02
Dec 2009	\$5,810	\$5,887	\$6,316	1.01	0.93	\$611,492	\$610,325	\$596,548	1.00	1.02
Jan 2010	\$14,300	\$11,915	\$12,602	0.83	0.95	\$625,792	\$622,240	\$609,150	0.99	1.02
Feb 2010	\$8,283	\$9,263	\$9,594	1.12	0.97	\$634,075	\$631,503	\$618,744	1.00	1.02
Mar 2010	\$7,007	\$7,936	\$8,065	1.13	0.98	\$641,082	\$639,439	\$626,809	1.00	1.02
Apr 2010	\$9,492					\$650,574				
May 2010	\$7,705					\$658,280				
Jun 2010	\$9,853					\$668,132				
Jul 2010	\$14,373					\$682,506				
Aug 2010	\$8,961					\$691,466				
Sep 2010	\$10,204					\$701,671				
FY - To-Date	\$48,104	\$47,355	\$49,566	0.98	0.96					

Low-Activity Waste (LAW) Facility – April 2010 Accomplishments (March 10 EVM Data)

The LAW Facility will vitrify low-activity waste from the PT Facility. Waste will be mixed with glass formers, vitrified into glass at an average daily rate of 30 metric tons, and placed in stainless-steel containers that will be disposed on site in the Integrated Disposal Facility. Overall facility percent complete is 69%, design is 91%, and construction is 58%.

In April, BNI issued the Request for Proposal for the Thermo-Catalytic Oxidizer and the off-gas special purpose/process exhausters and conducted a pre-bid conference call with potential bidders for the off-gas system exhausters. The Thermo-Catalytic Oxidizer (TCO) is the critical path for LAW construction complete. The TCO is still on schedule to be awarded in August 2010.

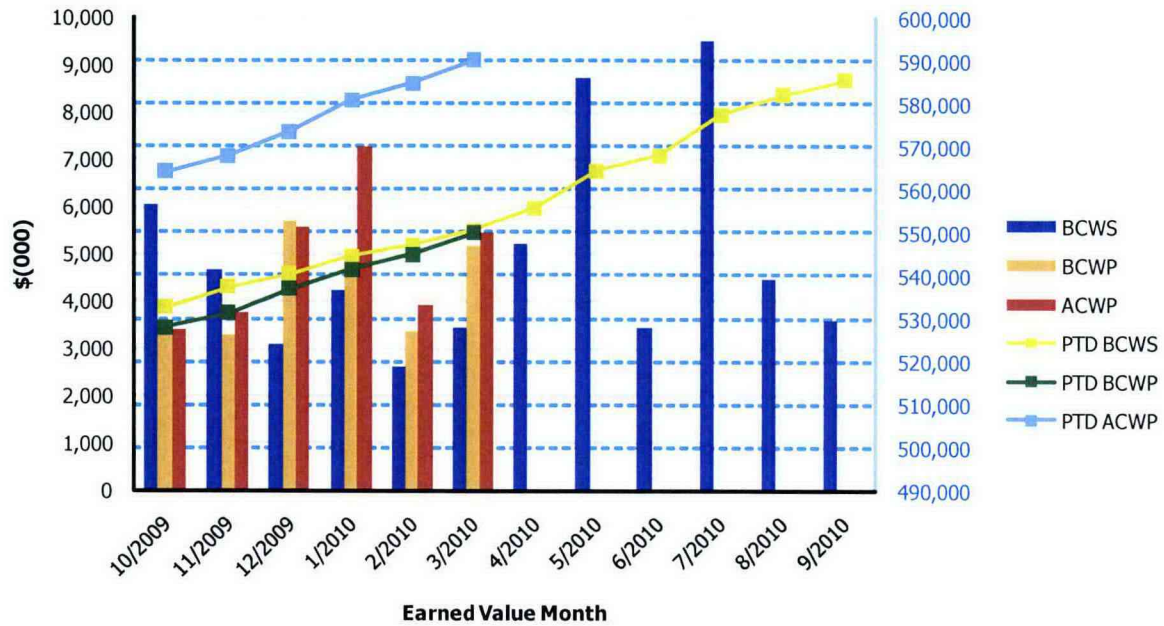
Construction began installing exterior wall siding on the elevator penthouse. Construction continued installing: piping and hangers, conduit, cable tray, gypsum wallboard, perimeter sealants, and grillage and liner plate. ORP is continuing to track progress and work with BNI on resolution of the use of combustible insulation without a thermal barrier in the LAW Annex. BNI prepared a report and met with ORP in April to discuss the most cost effective method for issue resolution in the LAW Annex, Truck Bay and Import Bay roofs. BNI's cost analysis determined that removing the exterior roof/insulation, installing a thermal barrier and then reinstalling the roof is the most cost effective option. This path forward achieves compliance with DOE O 420.1B and DOE-STD-1066 and satisfies the objectives of the fire protection program.

Resolution of the excessive heat retention technical issue in some Melter Pour Cave equipment continued. A high temperature condition has been calculated to occur in certain container handling equipment that could significantly reduce the yield stress of these items.

Computational Fluid Dynamics calculation results will be analyzed for equipment stresses by a subcontractor. BNI and their subcontractor are continuing to perform analyses on the Melter Pour Cave Equipment. ORP and BNI are meeting the first week of May to discuss subcontractor progress. A final resolution of the path forward, including any equipment modifications is due to ORP by mid May 2010.

River Protection
01-D-16A - Low-Activity Waste Facility

Facility Specific (unallocated) Monthly and Project-to-Date (PTD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	PTD BCWS	PTD BCWP	PTD ACWP	PTD SPI	PTD CPI
Oct 2009	\$6,032	\$3,420	\$3,401	0.57	1.01	\$532,553	\$527,939	\$564,229	0.99	0.94
Nov 2009	\$4,657	\$3,275	\$3,738	0.70	0.88	\$537,211	\$531,215	\$567,968	0.99	0.94
Dec 2009	\$3,082	\$5,679	\$5,588	1.84	1.02	\$540,293	\$536,893	\$573,556	0.99	0.94
Jan 2010	\$4,215	\$4,555	\$7,254	1.08	0.63	\$544,508	\$541,448	\$580,810	0.99	0.93
Feb 2010	\$2,618	\$3,342	\$3,915	1.28	0.85	\$547,126	\$544,790	\$584,725	1.00	0.93
Mar 2010	\$3,428	\$5,165	\$5,459	1.51	0.95	\$550,554	\$549,955	\$590,184	1.00	0.93
Apr 2010	\$5,220					\$555,774				
May 2010	\$8,716					\$564,490				
Jun 2010	\$3,453					\$567,943				
Jul 2010	\$9,499					\$577,442				
Aug 2010	\$4,460					\$581,902				
Sep 2010	\$3,600					\$585,502				
FY - To-Date	\$24,032	\$25,436	\$29,355	1.06	0.87					

Analytical Laboratory (LAB) – April 2010 Accomplishments (March 10 EVM Data)

The LAB will support WTP operations by analyzing feed, vitrified waste, and effluent streams. Overall facility complete for LAB is 50%, design is 80%, and construction is 63%.

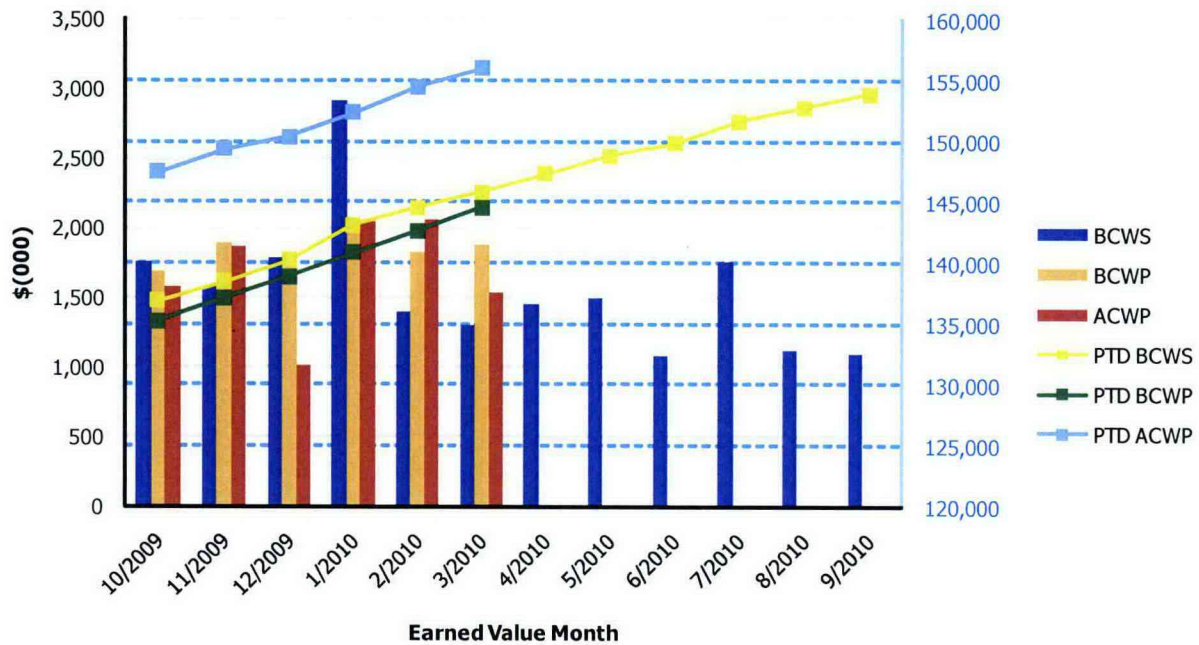
Construction began installing the waste drum bogie. Construction continued installing liner plate protection, piping and hangers, conduit, gypsum wall board, lighting and electrical equipment, ductwork and supports, and steam piping.

ORP and BNI continue to work together for the most efficient solution to the issue of combustible insulation in the LAB roof assembly without a thermal barrier. BNI prepared a report and met with ORP in April to discuss the most cost effective method for issue resolution. BNI's cost analysis showed that the most cost effective option, which achieves compliance and satisfies the fire protection program objectives, is to implement a design modification to the C5 HEPA Filter Area and document the basis and justification for achieving the objectives of Highly Protected Risk (HPR) with the existing LAB roof, as well as achieving the DOE-STD-1066 Maximum Possible Fire Loss (MPFL) requirement. The scope of the LAB upgrade is to add a 2-hour rated upper boundary above the C5 HEPA Filter room and fireproof the roof trusses in an area encompassing the C5 HEPA Filter room. BNI's plan is to execute work during the 2010-2011 timeframe, with a duration of 3-6 months. Work coordination will be crucial to prevent impact to other construction activity completion dates. There are no anticipated impacts to LAB milestones or critical path.

Completion of HVAC equipment installation is scheduled for May 2010.

River Protection 01-D-16B - Analytical Laboratory

Facility Specific (unallocated) Monthly and Project-to-Date (PTD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	PTD BCWS	PTD BCWP	PTD ACWP	PTD SPI	PTD CPI
Oct 2009	\$1,756	\$1,681	\$1,579	0.96	1.06	\$136,852	\$135,189	\$147,452	0.99	0.92
Nov 2009	\$1,583	\$1,896	\$1,864	1.20	1.02	\$138,435	\$137,085	\$149,316	0.99	0.92
Dec 2009	\$1,779	\$1,735	\$1,015	0.98	1.71	\$140,213	\$138,820	\$150,331	0.99	0.92
Jan 2010	\$2,916	\$1,993	\$2,040	0.68	0.98	\$143,129	\$140,813	\$152,371	0.98	0.92
Feb 2010	\$1,397	\$1,826	\$2,057	1.31	0.89	\$144,526	\$142,639	\$154,428	0.99	0.92
Mar 2010	\$1,296	\$1,881	\$1,539	1.45	1.22	\$145,822	\$144,520	\$155,967	0.99	0.93
Apr 2010	\$1,455					\$147,277				
May 2010	\$1,492					\$148,769				
Jun 2010	\$1,076					\$149,845				
Jul 2010	\$1,756					\$151,601				
Aug 2010	\$1,126					\$152,727				
Sep 2010	\$1,096					\$153,823				
FY - To-Date	\$10,727	\$11,012	\$10,094	1.03	1.09					

Balance of Facilities (BOF) – April 2010 Accomplishments (March 10 EVM Data)

BOF provides services and utilities to support operation of the main production facilities – PT, HLW, LAW, and LAB. Overall facility percent complete for BOF is 53%, design/engineering is 81%, and construction is 57%.

Construction began excavating for the anhydrous ammonia storage facility base mat. Construction activities for April were mainly focused on trench work, Water Treatment Facility (WTF), Glass Former Facility (GFF), and the Chiller Compressor Plant (CCP). BNI completed the first hydro testing of the demineralized water system and pressure-testing the process service water system lines at the WTF.

The main engineering and procurement focus is on the Emergency Diesel Generator (EDG). The EDG procurement is on hold for up to 90 days to allow any M3 issue resolution impacts to be better understood. The EDG procurement documents are ready for issue. Both BNI and ORP anticipate no additional impacts from M3 and expect the hold to be lifted in May.

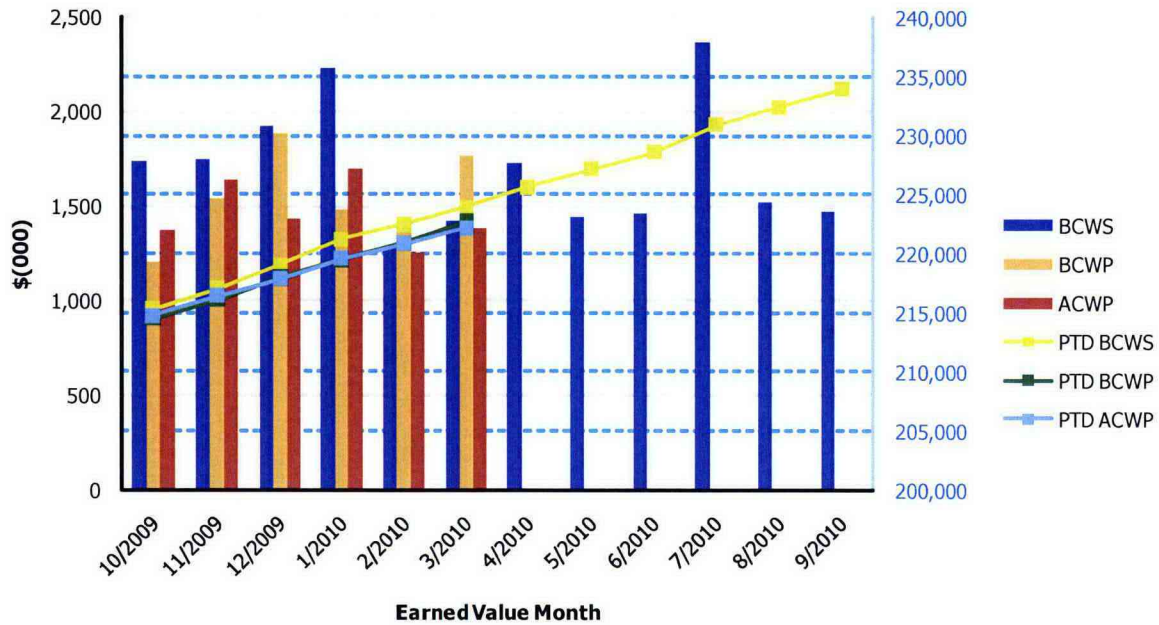
BNI Engineering continued to focus on activities for design confirmation and support to construction. BNI performed a preliminary walkdown of the Water Treatment Building in order to develop a list of items still outstanding to complete construction of the building.

ORP continues to work with the Tank Farms Operating Contracting (TOC) to analyze and prepare viable options for upgrading the A6 Substation to deliver up to 70 MW under worst case substation configuration. ORP received a letter from WRPS stating that the study will be completed and report issued by June 30, 2010.

Completion of tepid water skids installation at the Chiller Compressor Plant is planned for May 2010.

River Protection 01-D-16C - Balance of Facilities

Facility Specific (unallocated) Monthly and Project-to-Date (PTD) EVMS Values



Earned Value Month	BCWS	BCWP	ACWP	SPI	CPI	PTD BCWS	PTD BCWP	PTD ACWP	PTD SPI	PTD CPI
Oct 2009	\$1,733	\$1,205	\$1,374	0.70	0.88	\$215,317	\$214,523	\$214,779	1.00	1.00
Nov 2009	\$1,752	\$1,537	\$1,636	0.88	0.94	\$217,069	\$216,090	\$216,415	1.00	1.00
Dec 2009	\$1,921	\$1,889	\$1,428	0.98	1.32	\$218,990	\$217,979	\$217,843	1.00	1.00
Jan 2010	\$2,233	\$1,482	\$1,700	0.66	0.87	\$221,223	\$219,461	\$219,543	0.99	1.00
Feb 2010	\$1,279	\$1,442	\$1,258	1.13	1.15	\$222,502	\$220,903	\$220,801	0.99	1.00
Mar 2010	\$1,426	\$1,771	\$1,383	1.24	1.28	\$223,928	\$222,674	\$222,184	0.99	1.00
Apr 2010	\$1,731					\$225,659				
May 2010	\$1,437					\$227,096				
Jun 2010	\$1,463					\$228,559				
Jul 2010	\$2,371					\$230,930				
Aug 2010	\$1,520					\$232,450				
Sep 2010	\$1,467					\$233,917				
FY - To-Date	\$10,344	\$9,326	\$8,779	0.90	1.06					

Waste Treatment Plant Project - Percent Complete Status Through March 2010								
(Dollars - Millions)	Overall Facility Percent Complete Allocated Dollars			Design/Engineering Unallocated Dollars			Construction Unallocated Dollars	
	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP)	% Complete	Performance Measurement Baseline (PMB)	Budgeted Cost of Work Performed (BCWP) % Complete
Facilities								
Low-Activity Waste	1,692.8	1,163.4	69%	210.1	190.6	91%	300.7	175.7 58%
Analytical Lab	633.0	317.0	50%	49.5	39.7	80%	85.2	53.9 63%
Balance of Facilities	988.1	526.7	53%	68.9	55.5	81%	219.5	124.5 57%
High-Level Waste	2,594.2	1,316.4	51%	319.9	268.0	84%	510.4	133.0 26%
Pretreatment	4,091.3	2,044.6	50%	600.7	468.0	78%	815.1	246.6 30%
Shared Services	incl. above	incl. above	incl. above	1,064.2	804.0	76%	1,339.2	896.0 67%
Undistributed Budget	6.2	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total WTP	10,005.6	5,368.0	54%	2,313.4	1,825.9	79%	3,270.2	1,629.8 50%

Source: WTP Contract Performance Report

Note: Starting with the June 2009 report, facility Construction percent complete values decreased significantly, and a couple of Design/Engineering facility percent complete values went down as well. The decrease in values was tied to Phase I of BNI's elimination of WBS 1.08, Plant Wide EPC; scope from WBS 1.08 was moved to facilities as appropriate or to WBS 1.90, Shared Services. This resulted in an increase in the facility construction budgets, which has correspondingly reduced the to-date percent complete values.

MEETING MINUTES – Future Interim Barriers

Meeting Date: April 6, 2010

Location: Ecology Offices, Room 3C

Purpose: Discuss potential locations/design options for future interim surface barriers in tank farms.

Attendees: 5-10-10 *Ecology*
Jeff Lyon (Ecology), Joseph Caggiano (Ecology), Mike Barnes (Ecology), Michelle Hendrickson (Ecology), Nancy Uziemblo (Ecology), Bob Lober (ORP), Susan Eberlein (WRPS), Dan Parker (WRPS), Jim Field (WRPS)

Discussion: 5-10-2010 *ORP*

Based on characterization, the following has been identified:

1. Well to well characterization within the SX Farm identified electrical resistivity anomalies that may represent Tc-99 and nitrate at various depths. Resistivity anomalies could extend to 70 meters (approximate depth). Soil samples containing Tc and nitrate were obtained as deep as 155ft below ground surface. It was noted that contamination at the depth of 155 feet was within or below the Cold Creek Unit (CCU). Perhaps the unit dips or is discontinuous or has some holes in it at that specific location. The exact mechanism remains unknown, but contamination is present.
2. Direct push sampling confirms the contamination from about 46 ft to greater depths in several locations that could represent more than one plume.
3. An area north of SX and south of S Farm was characterized using surface geophysical exploration (SGE) and showed plumes of contaminants at varying depths. This contamination is likely due to pipeline leaks. But catch tanks are also within the vicinity. Characterization of this region is continuing.
4. During the decommissioning of push probe holes, resistivity electrodes are being emplaced that will allow better depth resolution of future SGE surveys.

It was noted that 11 of the 15 tanks in SX Farm were assumed leakers due to integrity issues. The tanks contain REDOX waste which is very high in Tc-99 and nitrate.

A barrier concept was proposed for the area that consisted of up to four (4) modular parts. It was clarified that these parts would not move, just be constructed in the field in distinct segments in an additive process. The concept is the result of on-going and perhaps scheduled work in the SX Farm that would hopefully accelerate retrieval from these tanks in the next 2-6 years. A schematic was presented that illustrated these 4 modular sections and a tentative location for an evapo-transpiration basin that could also be expanded as the various portions of the barrier were constructed.

A materials selection process would be performed for the Interim Surface Barrier, but it is likely that an asphaltic material, similar to that being used for TY Farm would be employed at this site.

Some of Ecology's basic concerns include:

1. How would the surface water collected be routed to the evapo-transpiration Basin from each module?
2. How would the "joints" between the barrier modules, and non-barrier areas or between existing barrier and additional construction of barrier modules (lifts) be protective, sealed, etc. as to not create an inadvertent preferential pathway?
3. Should we (as a project team) be considering other farm locations (such as BY) where limited characterization has been performed, other "leakers" and contaminant plumes in the vadose zone are present, and are not likely to be retrieved any time soon?
4. What is the barrier's effectiveness with depth and how effective will a barrier at SX and the area between S and SX Farms be as the contamination is 46 feet and deeper?
5. Can we install better monitoring systems to get better information on the possible effects of an interim barrier at depth and the time it would take for such effects to be detected?
6. Are we (as a project team) considering any other or additional interim measures such as soil desiccation, etc.?
7. Should retrieval in the SX Farm be proposed to occur, will the system plan be updated?

A final and very important idea was to save time and money and develop a better baseline that indicates present contamination, soil moisture and flux within a farm or area prior to installing the barrier. It was noted that should the monitoring plan design and approval process be moved up in the project timeline and approved with the initial DQO/SAP effort, the monitoring system could be placed during the characterization phase. That would allow reducing costs mobilizing and demobilizing the direct push rig in the farm. Perhaps the same boreholes could be used for characterization and barrier performance monitoring, or the rig moved slightly to drill new ones (if needed). Additional information collected for the baseline would also allow more of a moisture flux comparison purpose for the barrier.

The path forward will include a combination of options proposed and discussed during the meeting.

1. Construction of the barrier module between S and SX farms will be pursued.
2. Characterization and a performance monitoring plan initiated for BY farm will also be pursued in parallel. (Various options exist in BY farm for a barrier. Two barriers or one large barrier are likely options.)
3. A study of barrier effectiveness with depth could be demonstrated at the small portion between S and SX Farms AND/OR at the BY Farm.
4. Also, Ecology requests that a thorough review of additional interim measures be conducted and provided. Also, Ecology would like to understand why Tank Farms could not demonstrate a soil desiccation project as well. What would be required to initiate such an effort in the field?
5. Pending the options taken, it is possible that a TPA Change Package to the new TPA Change Form M-45-09-01 (which may be signed within the next two weeks) may need to be processed.

MEETING MINUTES – Waste Management Area C Work Plan

Meeting Date: April 26, 2010

Location: Ecology Offices, Room 31

Purpose: Discuss potential changes to the Waste Management Area (WMA C) RFI/CMS Work Plan.

Attendees: Jeff Lyon (Ecology), Mike Barnes (Ecology), Bob Lober (ORP), Susan Eberlein (WRPS)

Background:

A letter was transmitted from Ecology to ORP expressing concern that the schedule provided in the WMA C RFI/CMS Work Plan (RPP-PLAN-39114, Rev. 1) was not being achieved, and asking how this issue would be address. This meeting was requested to define the path forward.

Discussion:

1. The schedule provided in Figure 6-1 of RPP-PLAN-39114, Rev. 1 was reviewed and status of all activities discussed. A summary of the current status is attached.
2. It was recognized that C farm tank waste retrieval is a high priority activity that is a necessary precursor for closure of WMA C. Every effort is being made to coordinate the WMA C Work Plan activities with the retrieval activities. However, in some cases activities are mutually exclusive. Because of the priority of retrieval activities, some soil sampling from the work plan has been delayed. Currently the retrieval activities are in hiatus; during this time, efforts are underway to accelerate soil sampling.
3. The development and testing of a Tc-99 (beta) detection probe will not proceed as rapidly as described in the plan. Due to the developmental nature of the technology, additional testing, probe development and design is required before a field deployable system can be provided. A change to RPP-PLAN-39114 and the schedule in Figure 6-1 is required to document this change.
4. The laboratory analysis of soil samples is taking longer to complete than shown in the plan. The timing in the plan reflects the original estimate, before analysis had been performed. A change to RPP-PLAN-39114 and the schedule in Figure 6-1 is required to document this change.
5. The spectral gamma logging of the drywells inside C Farm may not be achievable while retrieval activities are ongoing, due to the need to access drywells in highly congested areas. This activity is still being investigated. When the probable schedule for drywell logging is better understood, a change to RPP-PLAN-39114 and the schedule in Figure 6-1 may be required.
6. Advances in resistivity technology are being reviewed to determine how they may improve the characterization described in RPP-PLAN-39114. Innovative means of deploying these technologies may warrant changes to the schedule, including possible acceleration of some future resistivity work.
7. It was agreed that a revision to RPP-PLAN-39114 would be prepared to address the changes described in items 3 and 4 above, and (if needed) in items 5 and 6. The revised document will be provided to Ecology by July 31, 2010..
8. It was recognized that future changes will probably occur. Ecology and ORP will continue to meet to discuss the need for future updates to RPP-PLAN-39114.
9. A TPA change Control Form will be used to indicate acceptance of the changes, and these will be provided at regular TPA-PMM's.

Waste Management Area C Work Plan Status – April 2010

Task	Planned	Expected	Comments
Direct Push 5 sites P1-3, L1, G	FY2009	Complete FY2009	
Direct Push 2 Sites	FY10	FY10	Sites F, L2 complete in April
Direct Push 2 Sites	FY10	FY10	Site R logging complete Anticipated completion of R and E in June
Direct Push 3 Sites	FY10	FY10	Field work package in place for sites V, U, H, I – will complete three of these in FY10
Direct Push slant holes at 2 sites	FY11	FY11 or sooner	Starting work package preparation for slant holes at sites A and J in case there is opportunity to accelerate FY11 work
Borehole Logging Dry wells	FY10-12	FY10-12	Will log opportunistically to coordinate with other farm activities
Borehole Logging Groundwater wells	FY10	FY10	Pursuing completion of this work in FY10
SGE – UPR 81	FY09	Complete FY09	Successful use of deep electrode
SGE – UPR86	Field FY10 Analysis FY11	FY10	Field work complete, pursuing analysis completion by end of FY10
SGE – UPR82	Field FY10- FY11 Analysis FY11	Field FY10- FY11 Analysis FY11	Installing additional deep electrodes in FY10 to improve results. Anticipate starting field work in late FY10, completing analysis in FY11.
SGE – all WMA C	FY12-13	FY12-13	Evaluating acceleration of areas where deep electrodes have already been placed to obtain better data
Technology Development - Beta Probe	FY10-FY11	FY10-FY13	Additional lab testing and design needed before a field deployable system may occur – will continue to pursue development
Ecological Risk Assessment	FY11 Collect Data	FY11 Collect Data	May start in late FY10
WMA C Performance Assessment	FY09-FY12	FY09-FY12	On schedule
RFI/CMS	FY10-FY13	FY10-FY13	Will proceed with expectation of delivering the initial RFI/CMS in FY2013